Markal®

High Performance Industrial Markers

Tempil®

Advanced Temperature Indication Technologies

LA-CO®

Plumbing and Chemical Products











LA-CO INDUSTRIES EUROPE











LA-CO INDUSTRIES, INC.

LA-CO Industries, Inc. is a family owned global manufacturing company specializing in the manufacturing of industrial hand-held markers, temperature indicators, plumbing chemicals, and livestock identification products. Since 1934, we have taken pride in the design and manufacturing of high quality, performance-based products for our customers' unique applications.

LA-CO Industries continuously invests in research and development to meet the requirements of a constantly changing and advancing marketplace. Through careful product evaluation and analysis, our chemists create proprietary formulas, which are designed to meet the needs of our customers.

Our experienced customer service representatives are the heart of LA-CO Industries. Interacting with customers every day, our team expertly provides quote, receives orders, prepares documents, assists in product selection and answers customers inquiries. Our manufacturing plants and warehouses in the United States and France allow our logistic specialists to efficiently serve customers' across the globe.

Our marketing department is committed to supporting our partners around the world. Lending our graphic design and creative expertise, we work with distributors to create unique promotions, sampling tools and cross-selling opportunities that are valuable to everyone, but most importantly the end-user.

Our Mission

"We actively listen to our customers, providing them with quality, high-performance products around the world. We are ethically and environmentally responsible and support the growth and well-being of our employees."



Made in America

Made in Europe

For almost 80 years, Markal has been proudly manufacturing and supplying the industry's largest line of industrial grade markers. Products listed with these symbols are made either in the USA or in Europe with the highest attention to quality and dependability.

Green Product

Products designated with this symbol are part of our Green Solutions for Sustainability product selection. These products meet many or all specifications for reducing health and safety concerns, produced using sustainable and/or recycled materials, are low in VOC levels, and are RoHS compliant.

Low VOC

A Volatile Organic Compound (VOC) is a type of potentially harmful gas emitted by certain solids or liquids, hurting indoor air quality. Products with this symbol emit less amounts of harmful VOC's than other industrial paint markers.

Low Corrosion Colors

Ideal for stainless steel and alloy metals, our Low Corrosion markers have low levels of chlorides, halogens, and sulfur to protect against unwanted degradation, pitting, or general weakening of materials. For more information see our Low Corrosion Marker Guide.

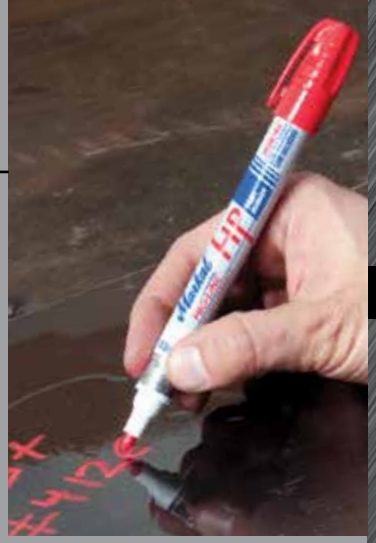
HIGH PERFORMANCE MARKERS

MARKAL® is the global leader in high-performance, hand-held industrial marking products. From our North American and European manufacturing locations, we support the hardworking contractors that build the world's great bridges, ships, automobiles, homes, office towers, power plants, and many other engineering marvels with MARKAL® products.

Today, Markal®-branded products are sold around the globe. This broad network of long-term business partners provides our customers the highest level of service.

MARKAL® has a marker for every industry. Some industries we are dedicated to serving includes :

- Automotive
- Construction
- Lumber/Timber
- Metal Production
- Oil & Gas
- Ship Building
- Welding and Metal Fabrication



ADVANCED TEMPERATURE INDICATION TECHNOLOGIES

Tempil® is an industrial leader in advanced and accurate temperature indication technologies. From protecting NASA's Space Shuttle Orbiter to measuring critical temperatures of life saving drugs and devices, engineers and professional rely on the accuracy of Tempil® for the most vital applications.

Setting the global standard of innovative, customer-driven solutions, Tempil® branded products deliver the surface measurement solutions, when and where customers need the most.

Our visual temperature indication solutions provide critically accurate surface readings for a variety of industries, including:

- Welding and Metal Fabrication
- Heat Treating and Annealing
- Supply Chain
- Medical Equipment Sterilization



PLUMBING AND CHEMICAL PRODUCTS

Our LA-CO® brand of high-quality, high-performance plumbing and HVAC chemicals is a globally trusted partner for professional contractors. From homes to skyscrapers to the United States' National Archives Building in Washington D.C., LA-CO® branded thread sealants, fluxes, heat protection products, and repair sealants protect history's most important documents and maintain the world's most precious natural resources.

We are proud to serve multiple industries with our quality chemical compounds. We are committed to serving several industries including:

- Plumbing
- HVAC
- Pipefitting
- Maintenance Operations
- Commercial and Residential Construction
- Repairs and Replacement Services
- Original Equipment Manufacturing













6 Liquid Paint Markers

7 Valve Action®
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10 Certified Valve Action
10 SL.250
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18 Ink Markers

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21 DURA-INK® Dry Erase
21 ALL-WEATHER® Plastic Tag Marker

22 Solid Paint Markers

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24 B-L® / BL-W®
24 C® / E®
25 F®
25 FAST DRY®
25 M® / M-10®
25 N®
26 O-10®
26 P®
26 WS-3/8®
27 Lacquer-Stik®
27 TYRE MARQUE®
27 ZEPHYR®
28 Quik Stik® / Quik Stik Mini
29 Holders: 101 / 102 / 107

30 Solid Paint Markers-Hot Surface

31 H®
31 HT®
31 HT-34®
31 HT-40®
32 HT-75®
32 J®
32 K®
32 X-5®
33 PK®
33 Holders: 100 / 102K / 111

34 Welding Markers

35 Silver-Streak® Welders Pencil
35 Red-Riter® Welders Pencil
35 Silver-Streak®
36 Red-Riter®
36 Soapstone

37 Temperature Indicators

38 THERMOMELT® Fahrenheit
39 THERMOMELT Celsius
39 Certified THERMOMELT

40 General Purpose Markers

41 FM.120
41 Pro-EX®
41 Lumber Crayon 200
41 Lumber Crayon 500
42 ULTRASCAN®
42 SCAN-IT® Plus
42 Optimark®
43 TRADES-MARKER®
43 TRADES-MARKER® WS
44 China Marker
44 FM.213 / FM.220 / FM.230
44 Holders: FM.001
44 Holders: 108
45 ZS.124 / ZS.130 /ZS.224 /ZS.230
45 ZS.324 / ZS.424

46 Engravers

47 CA.003
48 BT.002
48 CC.004
49 PN.500
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51 PN.200
51 PN.200D
51 RS.2000

52 Aerosols and Coatings

53 MT.0994
54 MT.7300
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55 FD.50

56 Tempil Temperature Indicators

57 Tempilstik®
58 Tempilstik® Kit
58 IRT-16®
58 Estik®
59 Tempilaq®

60 Tempil Temperature Sensitive Labels

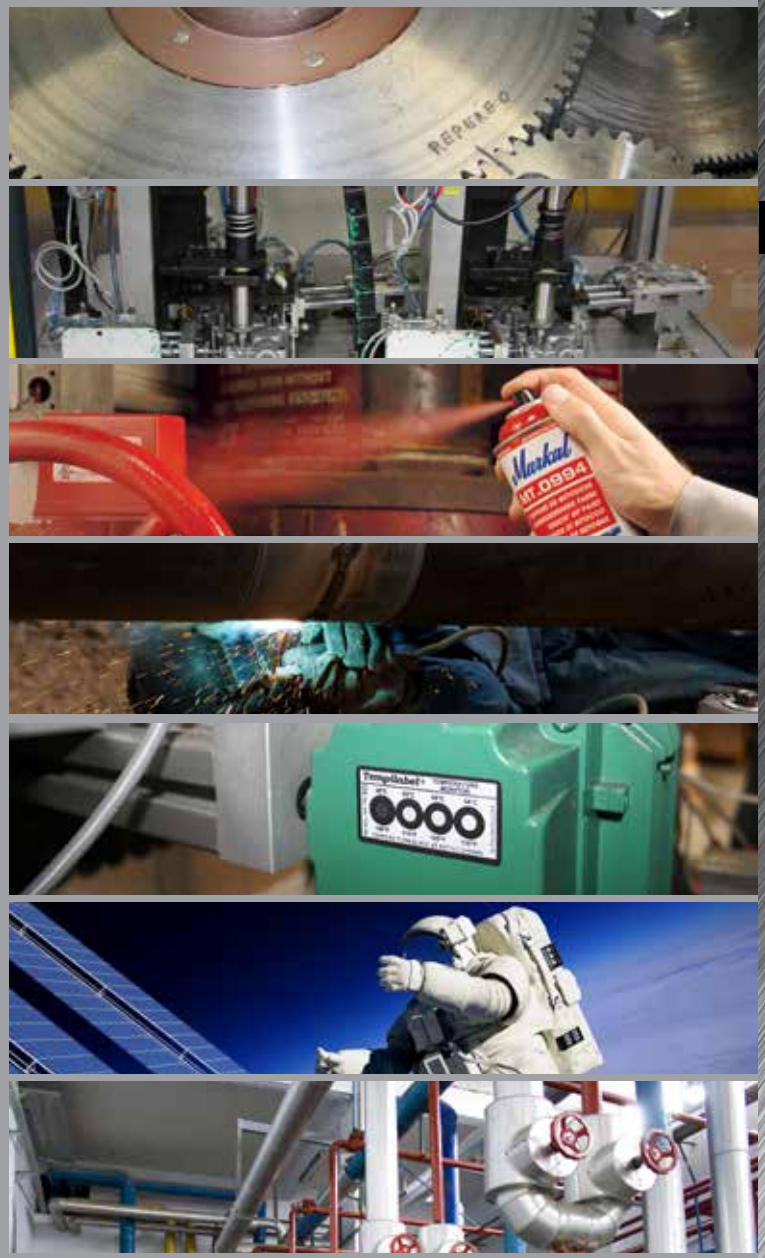
61 Tempilabel® Series 4
61 Tempilabel® Series 21
62 Tempilabel® Liquid Crystal
62 Thermax® Clock
62 Thermax® 5
63 Thermax® 6
63 Thermax® 8
63 Thermax® 10

64 High Temperature Coating

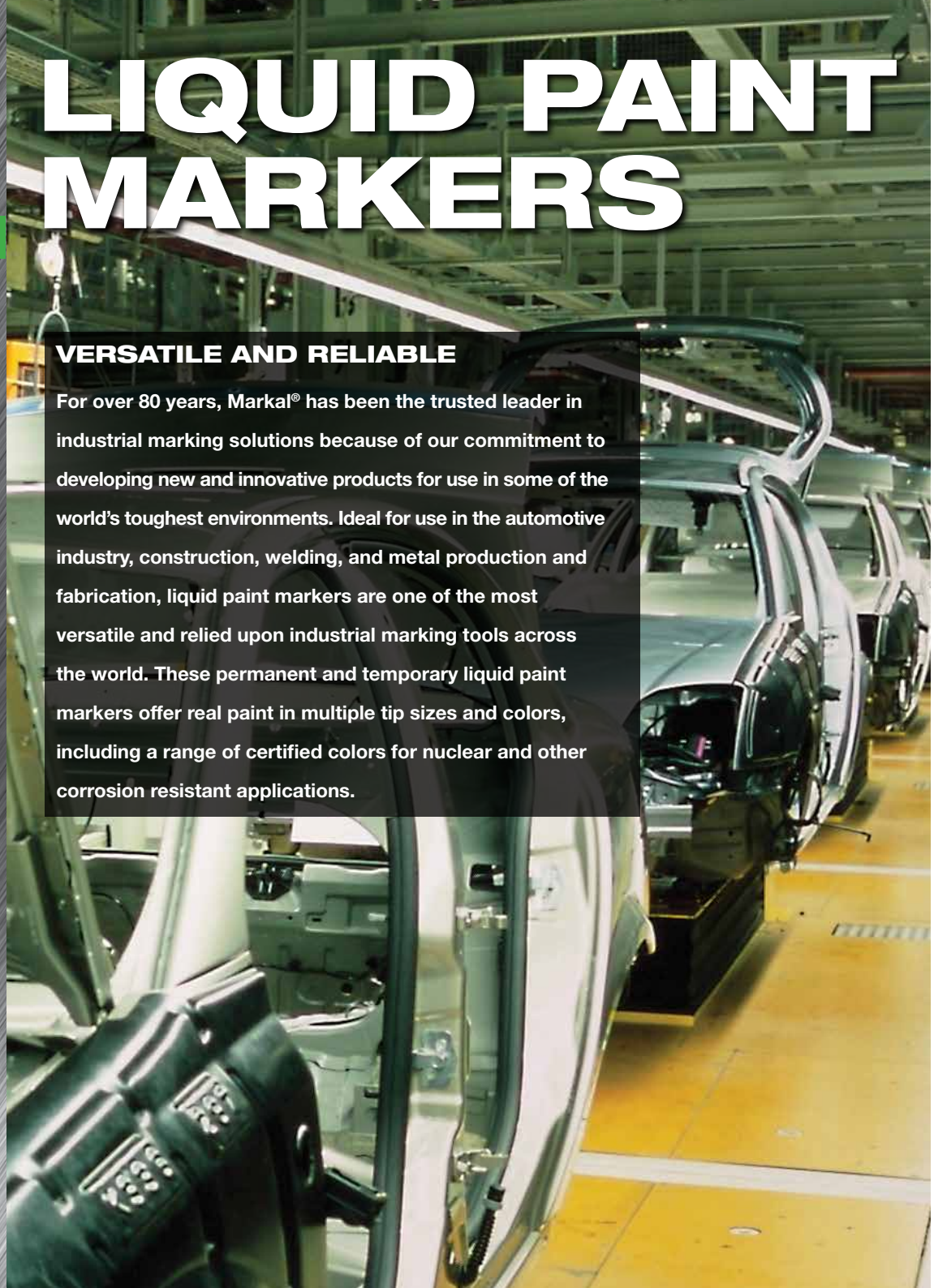
65 Anti-Heat®
65 Bloxide®
65 Pyromark®

66 LA-CO® MRO and PVF Chemicals

67 Slic-tite® Paste
67 LEAK-TITE® Blue
68 Slic-tite® Stik
68 Slic-tite® Thread Tape
68 Regular Flux
68 Cool Gel®
69 EZ BREAK® Copper
69 EZ BREAK® Nickel
70 Rust Buster®
70 Zoom Spout® Oiler
70 EPOXY-STIK®
70 LIFTER WIPES®



LIQUID PAINT MARKERS



VERSATILE AND RELIABLE

For over 80 years, Markal® has been the trusted leader in industrial marking solutions because of our commitment to developing new and innovative products for use in some of the world's toughest environments. Ideal for use in the automotive industry, construction, welding, and metal production and fabrication, liquid paint markers are one of the most versatile and relied upon industrial marking tools across the world. These permanent and temporary liquid paint markers offer real paint in multiple tip sizes and colors, including a range of certified colors for nuclear and other corrosion resistant applications.

	VALVE ACTION®	SL.100	CERTIFIED VALVE ACTION	SL.250/SL.250PMUC	PRO-LINE® HP	PRO-LINE WP	PRO-LINE XT	PRO-WASH®	SL.130	PRO-LINE FINE/MICRO	PRO-MAX®	SL.400
PERMANENT												
Metals												
Clean, Dry	◉	◉			◉	◉	◉			◉	◉	◉
Rough							◉					
Rusty							◉					
Oily		◉			◉							
Wet						◉						
Low Corrosion			◉	◉								
Nuclear & Military Specifications			◉	◉								
Plastics												
Clean, Dry	◉	◉			◉	◉	◉			◉	◉	◉
Rough							◉					
Oily					◉							
Wet						◉						
Rubber												
Clean, Dry	◉	◉			◉	◉	◉			◉	◉	◉
Rough							◉					
Oily					◉							
Wet						◉						
Glass, Ceramic												
Clean, Dry	◉	◉			◉	◉	◉			◉	◉	◉
Rough							◉					
Wet						◉						
Brick, Stone												
Clean, Dry	◉	◉			◉	◉	◉			◉	◉	◉
Rough							◉					
Wet						◉						
Cloth, Fabric												
Clean, Dry	◉	◉								◉	◉	
Painted Surface												
Clean, Dry	◉	◉			◉	◉	◉			◉	◉	◉
Rough							◉					
Oily					◉		◉					
Wet						◉						
Tile, Polished Stone												
Clean, Dry	◉	◉			◉	◉	◉			◉	◉	◉
Wet						◉						
REMOVABLE												
Non-porous Surfaces												
Clean, Dry								◉	◉			

◉ *Preferred Selection* ◉ *Secondary Selection*

Valve Action®

Valve Action is a fast-drying liquid paint marker that provides long-lasting, wear- and weather-resistant marks that are safe for almost any surface. As the most versatile liquid paint marker in the world, the xylene-free paint reduces user health risks and is available in 18 bold and fluorescent colors for accurate mark identification.



Features & Benefits

- 14 standard and 4 fluorescent colors for improved mark identification, quality control, and parts inspection
- Fast-drying, permanent paint for immediate handling, reduces work downtime
- Xylene-free paint reduces user health risks and eliminates California Proposition 65, EPA HAPS and SARA 313 concerns in the U.S.A.
- Dura-Nib medium bullet tip resists wear to provide long marking life
- Durable metal barrel and clip-cap reduce breakage and store easily in pocket
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses

Industrial manufacturing
Automotive and other transportation
Automotive assembly
Metal fabrication
Construction
Welding
Shipping supply
Textile
Aviation and aerospace

Surface Uses

Steel and iron
Plastic
Glass
Pipes and tubes
Rubber and tires
Cloth, fabric (textiles)

Details

Mark Size 3mm (1/8")

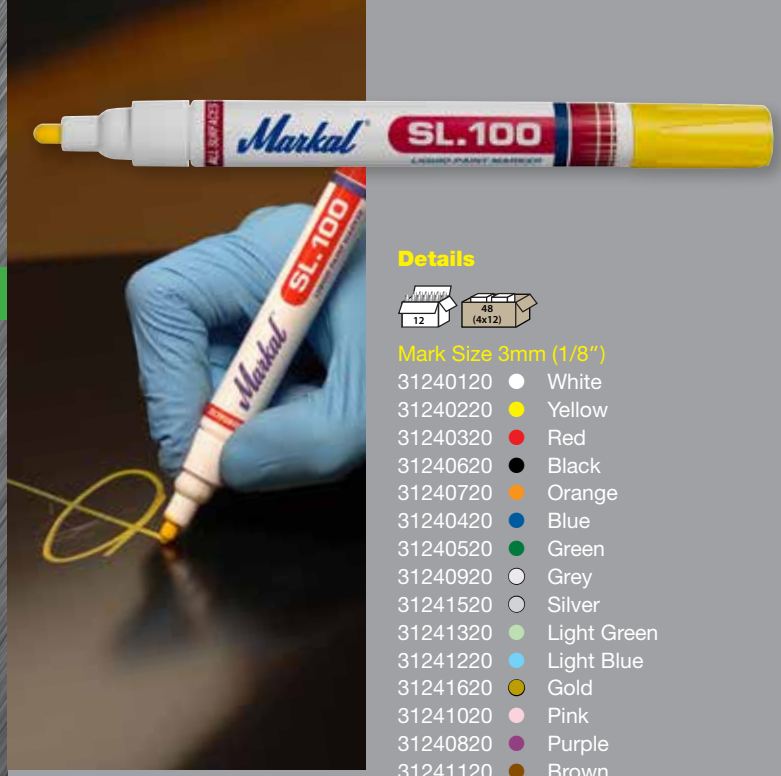
96809	Brown*
96817	Purple*
96820	White*
96821	Yellow*
96822	Red*
96823	Black*
96824	Orange*
96825	Blue*
96826	Green*
96827	Gold*
96828	Light Green*
96830	Pink*
96832	Aluminum*
96835	Light Blue*
97050	Fluorescent Yellow
97051	Fluorescent Green
97052	Fluorescent Orange
97053	Fluorescent Pink

** Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.*









SL. 100

SL.100 is a xylene-free, low-odor fast-drying liquid paint marker that provides long-lasting marks for almost any surface.

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")

31240120	●	White
31240220	●	Yellow
31240320	●	Red
31240620	●	Black
31240720	●	Orange
31240420	●	Blue
31240520	●	Green
31240920	●	Grey
31241520	●	Silver
31241320	●	Light Green
31241220	●	Light Blue
31241620	●	Gold
31241020	●	Pink
31240820	●	Purple
31241120	●	Brown

Features & Benefits

- 15 colors for excellent mark identification, quality control, and parts inspection
- Fast-drying, indelible permanent paint for immediate handling reduces work downtime
- Xylene-free paint reduces user health risks
- Certified for identification marking of Public Collections (Centre de recherche et de restauration des Musées de France)
- Strong medium bullet tip resists wear to provide long marking life
- Marking range: -20°C to 50°C (-4°F to 122°F)
- Mark temperature resistance: up to 100°C (212°F)
- Xylene-free paint reduces user health risks

Industry Uses

Automotive and other transportation
Automotive assembly
Industrial manufacturing
Metal fabrication
Construction
Welding
Shipping supply
Museum and public collections

Surface Uses

Steel and iron
Rubber/Tires
Glass
Plastic
Cloth and fabric (textiles)
Pipes and tubes



PRO-LINE® HP

PRO-LINE® HP is a liquid paint marker developed for superior marking performance on oily and greasy surfaces. The high performance paint penetrates through oils and greases to dry quickly and leave a bold, permanent mark that is wear-, weather-, and fade-resistant.

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")

96960	●	White*
96961	●	Yellow*
96962	●	Red*
96963	●	Black*
96964	●	Orange
96965	●	Blue*
96966	●	Green
96967	●	Silver*
96970	●	Light Green
96971	●	Light Blue*
96972	●	Gold
96973	●	Pink*
96974	●	Purple
96975	●	Brown*

Features & Benefits

- Unique paint formula resists spreading and dries quickly through oily surfaces to leave precise, permanent marks
- Xylene-free paint reduces user health risks and eliminates California Proposition 65, EPA HAPS and SARA 313 concerns in the U.S.A.
- Durable metal barrel and nib reduce breakage for longer marking life
- Easy-to-grip clip-cap allows for convenient pocket storage
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses

Metal fabrication
Automotive and other transportation
Industrial manufacturing
Steel mills and warehouses
Oil and gas
Construction
Aviation and aerospace

Surface Uses

Steel and iron
Aluminum
Pipes and tubes
Plastics
Rubber/Tires

PRO-LINE® WP

The PRO-LINE® WP is a liquid paint marker engineered for enhanced marking performance and adhesion on wet surfaces. The fast-drying formula resists spreading and running when in contact with water or water-based fluids to leave a bright, permanent mark.



Features & Benefits

- Specially formulated paint resists running or spreading on wet or damp surfaces to leave permanent, highly-visible marks
- Xylene-free paint reduces user health risks and eliminates California Proposition 65, EPA HAPS and SARA 313 concerns in the U.S.A.
- Low in V.O.C.'s and will not contribute to ground-level ozone
- Metal barrel and fiber tip provide durability for longer marking life
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses

Machining shops
Stamping works
Plasma cutting
Metal fabrication
Ship building and repair
Oil and gas
High-humidity climates
Aviation and aerospace

Surface Uses

Steel and iron
Aluminum
Pipes and tubes
Plastics
Glass
Rubber
Ceramic

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")

96930	●	White*
96931	●	Yellow*
96932	●	Red*
96933	●	Black*
96934	●	Blue*
96935	●	Green*
96936	●	Orange
96937	○	Silver*

PRO-LINE® XT

PRO-LINE® XT is a liquid paint marker engineered for the ultimate marking performance on rough, rusty and dirty surfaces that utilizes an enamel resin to provide enhanced wear-, weather-, and chemical-resistance. The fast-drying paint formula binds quickly to materials to leave a bold, highly-visible mark and is free of Xylene and other harmful chemicals to reduce user health risks.



Features & Benefits

- Engineered for continuous and highly-visible marking on rough, rusty, and dirty surfaces
- Enamel paint for extreme durability and enhanced wear-, weather-, and chemical-resistance
- Available in 14 bold, fast-drying colors for immediate handling and reduced downtime
- Xylene-free paint reduces user health risks and eliminates California Proposition 65, EPS HAPS, and SARA 313 concerns in the U.S.A.
- Durable metal barrel and clip-cap reduce breakage and store easily in pocket
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses

Steel mills and warehouses
Metal fabrication
Oil and gas
Automotive
Ship building and repair
Construction
Metal production

Surface Uses

Rusty metal
Steel and iron
Pipes and tubes
Plates
Non-ferrous metals
Tires/rubber
Plastic
Glass and ceramic

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")

97250	●	White*
97251	●	Yellow*
97252	●	Red*
97253	●	Black*
97254	●	Blue*
97255	●	Green*
97256	●	Orange*
97257	○	Silver*
97258	●	Light Green*
97259	●	Light Blue*
97260	●	Gold
97261	●	Pink*
97262	●	Purple
97263	●	Brown*

** Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.*



Certified Valve Action

The Certified Valve Action is a highly-visible liquid paint marker pre-certified to contain low levels of chlorides, halogens, low melting point metals and sulfur. Each manufactured batch is individually analyzed and certified to meet U.S.A. and International nuclear and military specifications, and is safe for use on stainless steel and other alloy metals where corrosion resistance is a requirement.

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")

96880 White*
96881 Yellow*
96882 Red*
96883 Black*

Features & Benefits

- Ideal for use on stainless steel or superalloys in industries that require prevention against corrosion, pitting, or degradation
- Certified to meet the following U.S.A. and international specifications:
  - EDF PMUC
  - MIL - STD-2041D
  - U.S. DOE RDT F-7-3T (expired)
  - U.S. Navy C3070
- Engineered to meet:
  < 200 ppm total halogens
  < 250 ppm each low melting point metals
  < 300 ppm total low melting point metals
  < 200 ppm sulfur
- Individual lot analysis and certification available at www.markal.com/certified for quick, accurate reference
- Xylene-free paint reduces user health risks and eliminates California Proposition 65, EPA HAPS and SARA 313 concerns in the U.S.A.
- Fast drying formula leaves wear-, weather- and UV-resistant marks
- Marking range: -50°F to 150°F (-46°C to 66°C)

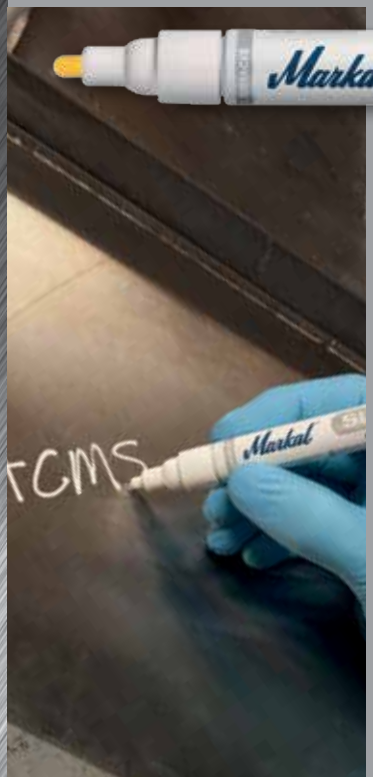
Industry Uses

Nuclear-power generation
Other power generation facilities
Oil and gas
Military
Welding
Aviation and aerospace

Surface Uses

Stainless Steel
Alloy and superalloy metals

** Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.*



SL. 250 and SL. 250 PMUC

SL.250 is a xylene-free, low-odor, and fast-drying liquid paint marker that meets the European nuclear requirements. The low sulfur and low chloride content allows for safe marking on stainless steel. SL.250 PMUC is a unique liquid paint marker certified for nuclear plants in France. Each marker is traceable to a manufactured batch number on the PMUC certificate that is required and controlled by EDF. Its low sulfur and low chloride content is safe for use on stainless steel, alloy, and other super alloy metals where corrosion resistance is a requirement.

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")

SL.250

31200129 White
31200229 Yellow
31200329 Red
31200629 Black
31200429 Blue
31200529 Green

SL.250 PMUC

31600129 White
31600229 Yellow
31600329 Red
31600629 Black
31600429 Blue
31600529 Green

Features & Benefits

- Safe for use on stainless steel and other alloy metals where corrosion resistance is a requirement
- Sl.250 : Paint formula confirmed using a typical analysis to contain:

  200 ppm total halogens

  200 ppm sulfur
- SL.250 PMUC : Each marker is delivered with a batch number and an official certificate with the product shipment.

  Official PMUC certification:

  200 ppm total halogens (chlorides, fluoride, bromide, iodine)

  200 ppm sulfur
- Fast-drying, permanent paint for immediate handling reduces work downtime
- Medium bullet tip resists wear to provide long marking life
- Marking Range: -20°C to 50°C (-4°F to 122°F)
- Mark temperature resistance: 100°C (212°F)

Industry Uses

Nuclear-power generation
Ship building and repair
Power generation facilities
Aviation and aerospace
Oil and gas
Welding
Industrial manufacturing
Metal fabrication

Surface Uses

Stainless steel
Alloy and super alloy metals
Alloy metals

PRO-LINE® Fine and Micro

The PRO-LINE Fine and Micro liquid paint markers combine the durability of paint with the marking precision of fine, valve-actuated tips. Whether marking on small surface areas or where easily-readable marks are required, the small tip sizes provide highly-visible, sharp lines for greater mark identification.



Features & Benefits

- Available in fine and micro tip sizes for precise, permanent paint marking
- High-strength, lightweight barrel designed for industrial-grade use
- Self-storing cap with clip protects tip for longer life and stores easily in pocket
- Xylene-free paint reduces user health risks and eliminates California Proposition 65, EPA HAPS and SARA 313 concerns in the U.S.A.
- Marking range: 0°F to 150°F (-18°C to 66°C)

Industry Uses

Industrial manufacturing
Welding
Automotive and other transportation
Metal fabrication
Textile

Surface Uses

Steel and iron
Cloth, fabric (textiles)
Plastics
Glass
Pipes and tubes

Details

12 | 48 (4x12)

Fine
Mark Size 1.15mm (1/16")

96871	White
96872	Yellow
96873	Black
96874	Red
96875	Blue
96876	Green
96877	Orange
96879	Light Green

Micro
Mark Size 0.79mm (1/32")

96888	White
96889	Yellow
96890	Black
96891	Red

PRO-MAX®

PRO-MAX is a liquid paint marker with an extra-large tip to provide the biggest and most highly-visible marks. The wear-, water-, and weather-resistant paint dries quickly to leave bold, easy-to-read marks and is safe for almost any surface.



Features & Benefits

- Extra large tip ideal for signage or safety marking where immediate identification is required
- Xylene-free paint reduces user health risks and eliminates California Proposition 65, EPA HAPS and SARA 313 concerns in the U.S.A.
- Valve-actuated tip releases paint on demand for smooth, continuous use
- Durable barrel resists breakage and self-storing cap fits snugly on end when not in use
- Marking range: (-18°C to 66°C) 0°F to 150°F

Industry Uses

Industrial manufacturing
Automotive and other transportation
Signage
Shipping
Construction

Surface Uses

Steel and Iron
Plastic
Cardboard
Glass
Pipes and tubes

Details

6 | 24 (4x6)

Mark Size 5x18mm (9/16")

90900	White
90901	Yellow
90902	Red
90903	Black
90904	Orange
90905	Blue
90906	Green



SL. 400

SL.400 is a water-based, low-odor liquid paint marker that marks on almost all types of clean surfaces. The 6 opaque, bright colors are weather- and UV-resistant for excellent mark identification.

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")

31200137	●	White
31200237	●	Yellow
31200337	●	Red
31200637	●	Black
31200437	●	Blue
31200537	●	Green

Features & Benefits

- Special water-based paint formula contains no solvents or VOC emissions reducing user safety and environmental concerns
- 6 vibrant colors for excellent mark identification, quality control, and parts inspection on clean surfaces
- Valve-actuated tip releases paint on-demand for smooth, continuous use
- Medium bullet tip resists wear to provide long marking life
- Marking Range: +5°C to 40°C (41°F to 104°F)
- Mark temperature resistance: up to 80°C (176°F)

Industry Uses

Automotive and other transportation
Industrial manufacturing
Metal fabrication
Welding
Shipping supply

Surface Uses

Steel and iron
Plastic
Rubber and tires
Glass
Pipes and tubes
Cardboard



Valve Action® Ultra Violet

The UV-visible Valve Action makes an invisible paint mark that glows bright blue when viewed with a UV or black light, making it ideal for security, quality control, tamper-proofing, and anti-counterfeiting processes. The permanent, invisible liquid paint dries quickly to provide long-lasting, weather- and wear-resistant marks.

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")

97054	●	UV Visible

Features & Benefits

- Makes clear, invisible marks that illuminate bright blue when viewed with an ultraviolet or black light
- Invisible paint formula is ideal for security, theft-prevention, and quality control
- Xylene-free paint reduces user health risks and eliminates California Proposition 65, EPA HAPS and SARA 313 concerns in the U.S.A.
- Fast drying formula reduces smearing
- Dura-Nib medium bullet tip resists wear to provide long marking life
- Durable metal barrel and clip cap reduce breakage and stores easily in pocket
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses

Industrial manufacturing
Quality control
Security and theft prevention
Construction

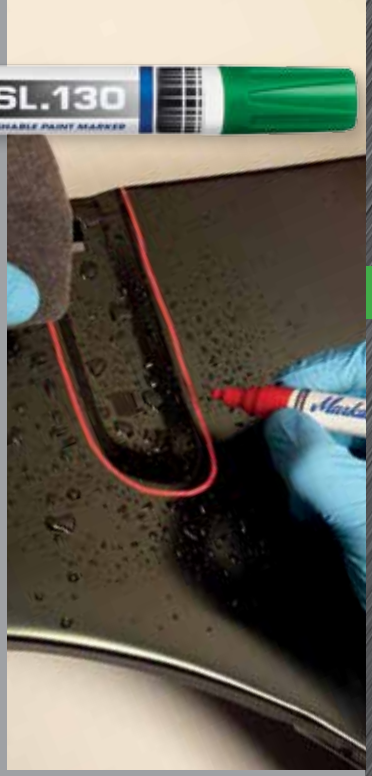
Surface Uses

Metal
Plastics
Glass
Pipes and tubes
Ceramics
Tools and equipment

SL. 130

SL.130 is a crayon-based liquid paint that easily wipes away with water from any smooth, non-porous surface without leaving a ghost trace or residue once the mark is removed.





Features & Benefits

- Marks can be easily wiped away with water without leaving a ghost trace or a mark residue
- 10 bright colors including 4 fluos are excellent for temporary mark identification, quality control, and parts inspection
- Medium bullet tip resists wear to provide long marking life
- Valve-actuated tip releases paint on-demand for smooth, continuous use
- Marking Range: +5°C to 40°C (41°F to 104°F)
- Mark temperature resistance: 80°C (176°F)

Industry Uses

Quality control
Automotive aftermarket
Automotive and other transportation
Industrial manufacturing
Metal fabrication
Aviation and aerospace

Surface Uses

Steel and iron
Pipes and tubes
Plates
Alloy and superalloy metals
Non-ferrous metals
Glass
Plastic
Rubber and tires

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")

31200126	●	White
31200226	●	Fluorescent Yellow
31200326	●	Red
31200626	●	Black
31200426	●	Blue
31200526	●	Green
31201826	●	Fluorescent Green
31201926	●	Fluorescent Pink
31202026	●	Fluorescent Orange

PRO-WASH®

PRO-WASH W and D are removable liquid paint markers that dry fast and can be quickly and easily washed off of any non-porous surfaces without ghosting or leaving a residue. The unique paints make highly-visible and durable marks until removal is required, making PRO-WASH ideal for quality control, assembly operations, and part defect identification.





Features & Benefits

- Fast-drying paint easily removes leaving surfaces free of mark ghosting or paint residue
- PRO-WASH W marks can be removed simply and quickly with water
- PRO-WASH D marks can be removed with detergent solutions that have a pH level of 10 or above
- Xylene-free paint reduces user health risks and eliminates California Proposition 65, EPA HAPS and SARA 313 concerns in the U.S.A.
- High-strength, light-weight plastic barrel designed for industrial use
- Marking range: -18°C to 66°C (0°F to 150°F)

Industry Uses

Quality control
Automotive aftermarket
Automotive assembly
Construction
Metal fabrication

Surface Uses

Steel and iron
Glass
Plastic
Pipes and tubes

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")

PRO-WASH W

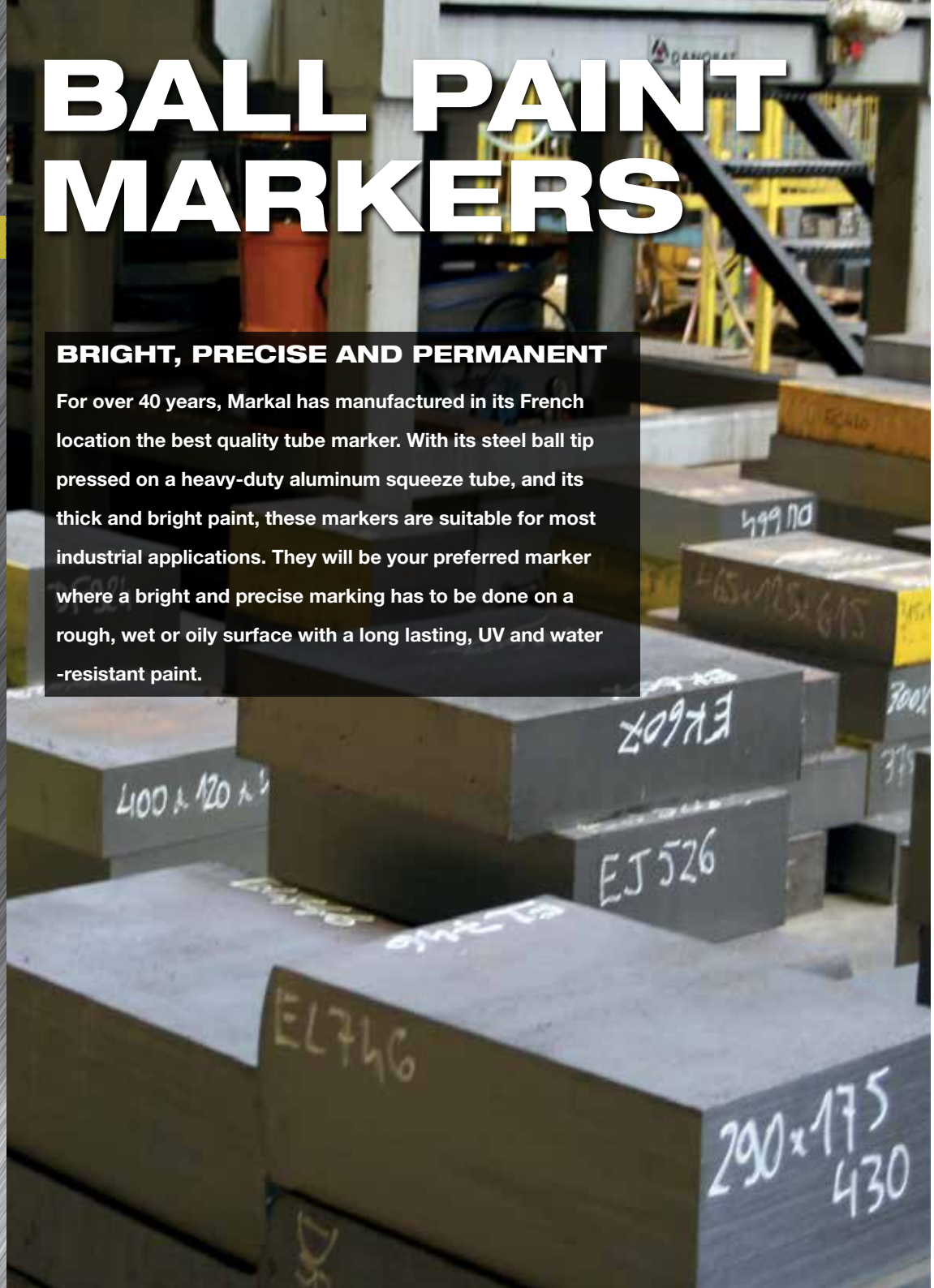
97030	●	White
97031	●	Yellow
97032	●	Red
97033	●	Black
97035	●	Blue
97036	●	Green

PRO-WASH D

97010	●	White
97011	●	Yellow
97012	●	Red
97013	●	Black
97015	●	Blue
97016	●	Green

** Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.*

BALL PAINT MARKERS



BRIGHT, PRECISE AND PERMANENT

For over 40 years, Markal has manufactured in its French location the best quality tube marker. With its steel ball tip pressed on a heavy-duty aluminum squeeze tube, and its thick and bright paint, these markers are suitable for most industrial applications. They will be your preferred marker where a bright and precise marking has to be done on a rough, wet or oily surface with a long lasting, UV and water -resistant paint.

PERMANENT	STYLMARK®	ECRIMETAL	ST.2100/ST.2100PMUC	HT.1000	BALL PAINT MARKER®
Metals					
Clean, Dry	◉	◉	◉		◉
Rough	◉	◉	◉		◉
Rusty	◉	◉	◉		◉
Oily	◉	◉	◉		◉
Wet	◉	◉	◉		◉
Low Corrosion			●		
Nuclear & Military Specifications			●		
Annealing, Heat Treat				●	
Plastics					
Clean, Dry	◉	◉	◉		◉
Rough	◉	◉	◉		◉
Oily	◉	◉	◉		◉
Wet	◉	◉	◉		◉
Rubber					
Clean, Dry	◉	◉	◉		◉
Rough	◉	◉	◉		◉
Oily	◉	◉	◉		◉
Wet	◉	◉	◉		◉
Glass, Ceramic					
Clean, Dry	◉	◉	◉		◉
Rough	◉	◉	◉		◉
Wet	◉	◉	◉		◉
Brick, Stone					
Clean, Dry	◉	◉	◉		◉
Rough	◉	◉	◉		◉
Polished & Wet (ex : Marble)				●	
Textiles					
Roll before printing				●	

● *Preferred Selection* ◉ *Secondary Selection*

Stylmark®

Markal® Stylmark® is a metal-ball tip marker for marking most surfaces. The aluminum squeeze tube and thick paint makes it suitable for rough, vertical and overhead surfaces with excellent adhesion on oily and wet surfaces. Xylene-free paint reduces user health risks.



Features & Benefits

- Durable steel ball tip marks with indelible paint on smooth or rough surfaces
- Steel ball tip is resistant to very rough surfaces for long marking life
- 6 bold, bright paint colors are weather-, water-, and UV-resistant
- Unique paint designed to not drip on vertical or overhead surfaces
- Marking range -20°C to 70°C (-4°F to 158°F)
- Mark temperature resistance: 200°C (392°F)

Industry Uses

Steel mills and warehouses
Forge and casting foundries
Ship building and repair
Metal fabrication
Metal production
Construction
Tire
Welding

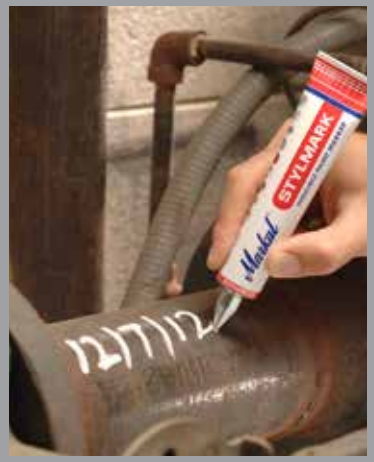
Surface Uses

Steel and iron
Concrete, stone
Asphalt
Masonry
Plastic
Rubber and tires
Cloth, fabric (textiles)

Details



Mark Size 2mm		Mark Size 3mm (1/8")		Mark Size 6mm	
10120103	White	10130103	White	10160103	White
10120203	Yellow	10130203	Yellow	10160203	Yellow
10120303	Red	10130303	Red	10160303	Red
10120403	Blue	10130403	Blue	10160403	Blue
10120503	Green	10130503	Green	10160503	Green
10120603	Black	10130603	Black	10160603	Black
10120703	Orange	10130703	Orange	10160703	Orange
10120803	Purple	10130803	Purple	10160803	Purple
10120903	Grey	10130903	Grey	10160903	Grey
10121003	Pink	10131003	Pink	10161003	Pink
10121103	Brown	10131103	Brown	10161103	Brown









ECRIMETAL

Markal® Ecrimetal is a metal-ball tip marker for marking most surfaces. The aluminum squeeze tube and thick paint makes it suitable for rough, vertical and overhead surfaces with excellent adhesion on oily and wet surfaces. Xylene-free paint reduces user health risks.

Details

10 | 50 (5x10)

Mark Size 3mm (1/8")

10130101	White
10130201	Yellow
10130301	Red
10130401	Blue
10130501	Green
10130601	Black
10130701	Orange
10130801	Purple
10130901	Grey
10131001	Pink
10131101	Brown

Mark Size 6mm

10160101	White
10160201	Yellow
10160301	Red

Features & Benefits

- Durable steel ball tip marks with indelible paint on smooth or rough surfaces
- Steel ball tip is resistant to very rough surfaces for long marking life
- Offered in 2 sizes: 3 mm and 6mm for varied mark thickness
- 11 bold, bright paint colors are weather-, water-, and UV-resistant
- Unique paint designed to not drip on vertical or overhead surfaces
- Marking range -20°C to 70°C (-4°F to 158°F)
- Mark temperature resistance: 200°C (392°F)

Industry Uses

Steel mills and warehouses
Forge and casting foundries
Ship building and repair
Metal fabrication
Metal production
Construction
Tire industry
Welding

Surface Uses

Steel and iron
Concrete and stone
Asphalt
Masonry
Plastic
Rubber and tires
Cloth and fabric (textiles)



ST. 2100 and ST. 2100 PMUC

Markal® ST.2100 is a metal-ball tip marker that meets French nuclear requirements. The low sulfur and low chloride content allows for safe marking on stainless steel. The aluminum squeeze tube and thick paint makes it suitable for vertical and overhead surfaces.
Markal ST.2100 PMUC is a unique metal-ball tip marker certified for nuclear plants in France. Each marker is traceable to a manufactured batch number on the PMUC certificate that is required and controlled by EDF.

Details

10 | 50 (5x10)

ST.2100

Mark Size 3mm (1/8")

10230123	White
10230223	Yellow
10230323	Red
10230423	Blue
10230523	Green
10230623	Black

ST.2100 PMUC

Mark Size 3mm (1/8")

10630123	White
10630223	Yellow
10630323	Red
10630423	Blue
10630523	Green
10630623	Black

Features & Benefits

- Safe for use on stainless steel and other alloy metals where corrosion resistance is a requirement
- 6 low sulfur and low chloride paint colors are weather-, water-, and UV-resistant
- Unique paint designed not to drip on vertical or overhead surfaces
- Marking range -20°C to 70°C (-4°F to 158°F)
- Mark temperature resistance: 200°C (392°F)
- ST.2100 : Paint formula confirmed using a typical analysis to contain:

  200 ppm total halogens

  200 ppm sulfur
- ST.2100 PMUC : Each marker is delivered with a batch number and an official certificate with the product shipment.

  Official PMUC certification:

  200 ppm total halogens (chlorides, fluoride, bromide, iodine)

  200 ppm sulfur

Industry Uses

Nuclear-power generation
Aviation and aerospace
Ship building and repair
Military
Power generation facilities
Oil and gas
Welding
Industrial manufacturing
Metal fabrication

Surface Uses

Stainless steel
Alloy and super alloy metals
Alloy metals

HT. 1000

Markal® HT.1000 is a metal-ball tip marker that is ideal for annealing and heat-treating operations. Marks at ambient temperature and the high-performance paint withstands temperatures up to 1000°C. The aluminum squeeze tube and thick paint makes it suitable for rough, vertical and overhead surfaces with excellent adhesion on oily and wet surfaces.

Features & Benefits

- High temperature paint is ideal for welds, ingots, castings, forgings, and other annealed parts
- Paint withstands temperatures up to 1000°C
- Permanent paint marks will not rub off, allowing for long-lasting identification
- Durable steel ball tip marks with indelible paint on rough or smooth surfaces
- Offered in 2 sizes: 3 mm and 6mm for varied mark thickness
- High-performance paint designed not to drip on vertical or overhead surfaces
- Marking range -20°C to 70°C (-4°F to 158°F)

Industry Uses

Forge and casting foundries
Steel mills and warehouses
Welding
Heat-treating industry
Industrial manufacturing

Surface Uses

Steel and iron
Aluminum
Rusty metal
Plates
Alloy and superalloy metals
Non-ferrous metals

Details

10 | 50 (5x10)

Mark Size 3mm (1/8")
10330131 White
10330231 Yellow
Mark Size 6mm
10360131 White
10360231 Yellow



BALL PAINT MARKER®

Markal® BALL PAINT MARKER® is a liquid paint marker using a durable metal-ball tip for writing on hard surfaces. Ideal for identifying fabricated steel and other rough surfaces that are stored in harsh environments, the squeeze bottle meters paint in a thick or thin line for long-lasting marks.

Features & Benefits

- Durable metal-ball tip resists wear and clogging for long-marking life on rough surfaces
- Non-drip paint formula allows for easy jobsite marking
- Industrial paint withstands harsh environments and weather conditions
- Plastic cap keeps tip clean between jobs
- Marking range -46°C to 66°C (-50°F to 150°F)

Industry Uses

Steel mills and warehouses
Forge and casting foundries
Ship building and repair
Metal fabrication
Construction
Metal production
Aviation and aerospace

Surface Uses

Steel and iron
Pipes and tubes
Concrete, stone
Asphalt

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")
84620 White*
84621 Yellow*
84622 Red*
84623 Black*
84624 Orange
84625 Blue
84626 Green

** Indicates that this marker color is low in chlorides, halogens,and sulfurs for low corrosion marking requirements.*



INK MARKERS

IMMEDIATE MARK AND DRY

Preferred for their ability to immediately mark and dry on almost any type of surface, felt-tip ink markers can be found on almost any job site, in any factory, or throughout warehouses and shipping departments around the world. Our line of DURA-INK® markers utilize industrial-grade construction, tips, and long-lasting inks, making them ideal for use in almost any application.

DURA-INK® Permanent Ink Markers

Roll-resistant caps

Composed of sturdy plastic, these impact-resistant caps are designed to offer a quick and complete seal to prevent premature dry-out. The convenient clip caps help the markers to store easily in a pocket or tool belt, and resist rolling off of a table or workbench.

Durable and lightweight barrels

Lightweight enough to reduce hand fatigue, but large enough to be used comfortably even with work gloves, these impact-resistant barrels will hold up in tough working environments and help to extend the life of the marker.

Extra-tough tips

Whether marking on cardboard or steel, the extra-tough tips resist spreading or mushrooming, ensuring long life and accurate marking performance.

Wear-resistant ink formula

Formulated to dry quickly and leave bold, highly-visible marks, the industrial grade ink is safe for use on almost any surface and is wear- and water-resistant.





DURA-INK® 5 Extended Micro Tip

Details

12 | 24 (2x12)

96520 ● Black





DURA-INK® 15 Fine Bullet Tip

Details

12 | 72 (6x12)

96022 ● Red*
96023 ● Black
96025 ● Blue
96026 ● Green
96027 ○ Silver





DURA-INK® 20 Retractable Fine Bullet Tip

Details

12 | 24 (2x12)

96575 ● Black
96576 ● Red*





DURA-INK® 25 Large Chisel Tip

Details

12 | 48 (4x12)

96222 ● Red*
96223 ● Black



Industry Uses

Metal fabrication
Construction
Automotive and other transportation
Shipping supply
Textile
Aviation and aerospace

Surface Uses

Metal
Cardboard
Pipes and tubes
Plastic
Glass
Lumber/timber
Cloth, fabric (textiles)

** Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.*

Industry Uses
Metal fabrication
Construction
Automotive and other transportation
Shipping supply
Textile
Aviation and aerospace

Surface Uses
Metal
Cardboard
Pipes and tubes
Plastic
Glass
Lumber/timber
Cloth, fabric (textiles)

* Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.



DURA-INK® 55 Medium Chisel Tip

Details

12 | 48 (4x12)

96528 Red*
96529 Black
96530 Blue
96531 Green



Mark size: 1.5mm to 4.5mm (1/16" to 3/16")



DURA-INK® 60 Medium Bullet Tip

Details

12 | 48 (4x12)

96535 Red*
96536 Black
96537 Blue
96538 Green



Mark size: 3mm (1/8")



DURA-INK® 80 Valve-Actuated Tapered Tip

Details

12 | 48 (4x12)

96923 Black



Mark size: 3mm (1/8")



DURA-INK® 200 Broad Chisel Tip

Details

12 | 24 (2x12)

96914 Green
96915 Blue
96916 Red*
96917 Black



Mark size: 9.5mm to 16mm (3/8" to 5/8")

DURA-INK® Dry Erase

The DURA-INK® Dry Erase marker makes temporary marks that are quickly and easily removed from most non-porous surfaces without ghosting or leaving a residue. The bullet tip provides highly-visible marks until time to be removed and will not spread or mush for longer marking life.



Features & Benefits

- Industrial-strength ink for temporary marking applications removes quickly and easily with dry rag, towel, or eraser
- Marks will not ghost or leave a residue once removed from most non-porous surfaces
- Durable nib will not spread or mush, and will not scratch painted surfaces
- Durable clip-cap and plastic barrel will resist unnecessary wear and breakage

Industry Uses

Quality control
Automotive
Automotive aftermarket
Steel mills and warehouses

Surface Uses

Metal
Plastic
Glass
Aluminum

Details

12 | 48 (4x12)

Mark Size 3mm (1/8")

96570 Red
96571 Black
96572 Blue
96573 Green

ALL-WEATHER® Plastic Tag Marker

A permanent ink marker engineered with a unique formula to etch into plastic surfaces and tags for long-lasting, highly-visible marks. The valve-actuated tip releases the wear-, weather- and UV-resistant ink on demand for smooth, continuous use.



Features & Benefits

- Unique ink formula etches into polyurethane plastic surfaces and tags for long-lasting, highly-visible marking
- Fade- and weather-resistant ink for extended outdoor exposure
- Heavy-duty aluminum barrel for tough work conditions
- Convenient clip-cap stores marker easily in pockets and eliminates product roll

Industry Uses

Security and theft prevention
MRO
Animal herd management
Construction

Surface Uses

Polyurethane plastics
Animal tag marking
Rubber

Details

12 | 48 (4x12)

Mark Size 4.5mm (3/16")

96623 Black

SOLID PAINT MARKERS



DURABILITY OF PAINT CONVENIENCE OF A CRAYON

With the introduction of the original B® Paintstik® in 1934, Markal changed the face of industrial marking by creating a product that combines the durability of paint with the convenience of a crayon. Since that time, we have continued to build on this innovation by engineering unique marking solutions, making our Paintstiks one of the most diverse and commonly used types of industrial marking tools available. These solid paint crayons can mark almost any surface and are ideal for metal fabrication, metal production, welding, construction, and many other industrial uses.

	B®	B-E®	B-L® / B-W®	C®	E®	F®	FAST DRY®	M® / M-10®	N®	O-10®	P®	WS-3/8®	Lacquer-Stik®	TYRE MARQUE®	Zephyr®	Quik Stik®	Quik Stik® Mini
PERMANENT																	
Metals																	
Clean, Dry	◉		◉	◉	◉	◉	◉	◉	◉				◉			◉	◉
Rough	◉	◉	◉		◉	◉	◉	◉	◉							◉	◉
Rusty	◉	◉			◉	◉	◉									◉	◉
Oily	◉									◉							
Wet	◉															◉	◉
Annealing, Heat Treat								◉									
Low Corrosion	◉																
Plastics																	
Clean, Dry	◉		◉	◉	◉	◉	◉	◉	◉				◉			◉	◉
Rough	◉	◉	◉		◉	◉	◉	◉	◉							◉	◉
Oily										◉							
Wet	◉															◉	◉
Rubber																	
Clean, Dry	◉				◉	◉	◉							◉		◉	◉
Rough	◉				◉	◉	◉							◉		◉	◉
Oily	◉									◉							
Wet	◉													◉		◉	◉
Glass, Ceramic																	
Clean, Dry	◉			◉			◉									◉	◉
Rough	◉	◉					◉									◉	◉
Wet	◉															◉	◉
Brick, Stone																	
Clean, Dry	◉				◉	◉	◉									◉	◉
Rough	◉	◉			◉	◉	◉									◉	◉
Wet	◉	◉			◉	◉										◉	◉
Before Painted Surface																	
Bleed-Through Paint			◉														
No Bleed-Through									◉								
Painted Surface																	
Clean, Dry	◉			◉	◉	◉	◉										
Rough	◉	◉			◉	◉	◉										
Oily	◉									◉							
Wet	◉				◉	◉										◉	◉
REMOVABLE																	
Non-porous Surfaces																	
Clean, Dry											◉	◉			◉		

◉ *Preferred Selection* ◉ *Secondary Selection*

B® Paintstik®

As Markal's most versatile and economic marker, the original B Paintstik solid paint marker combines the durability of paint in the convenience of a crayon. The real paint formula has superior marking performance on oily, icy, wet, dry or cold surfaces and is weather- and UV-resistant. This Paintstik works on rough, rusty, smooth, or dirty surfaces.



Features & Benefits

- Real paint for long-lasting, highly visible marks
- Superior marking on rough, rusty, or dirty surfaces
- Solid paint marker eliminates replacement tips, sharpening or priming, increasing productivity
- Weather- and UV-resistant for long-lasting marks
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses

Steel mills and warehouses
Forge and casting foundries
Ship building and repair
Metal fabrication
Tire repair and retreading
Lumber/timber
Construction

Surface Uses

Steel and iron
Pipes and tubes
Rubber and tires
Lumber/timber
Plastic
Glass
Concrete, stone

Details

12 | 144 (12x12)

Mark Size 17mm (11/16")

80220	White*
80221	Yellow
80222	Red
80223	Black
80224	Orange
80225	Blue
80226	Green
80227	Pink
80228	Purple
80229	Brown
80230	Grey
80231	Gold
80232	Aluminum
82821	Fluorescent Yellow

Details

B-3/8

12 | 144 (12x12)

Mark Size 9.5mm (3/8")

80420	White*
80421	Yellow

B-HEX

12 | 144 (12x12)

Mark Size 12.7mm (1/2")

80250	White*
80251	Yellow

B-E® Paintstik®

Created for very rough surfaces such as forgings, castings, concrete and lumber, the B-E Paintstik marks a wider line more clearly seen on cold, wet, dry or oily metal or wood surfaces.



Features & Benefits

- Soft solid paint for easier marking on rough or colder surfaces
- Marks withstand prolonged immersion in water for long mark life
- Weather- and UV-resistant
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses

Steel mills and warehouses
Metal fabrication
Construction
Lumber/timber

Surface Uses

Steel and iron
Concrete, stone
Lumber/timber
Ingots

Details

12 | 144 (12x12)

Mark Size 17mm (11/16")

80620	White
80621	Yellow
80622	Red
80623	Black

** Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.*



B-L® Paintstik®

Features & Benefits
- Marks bleed through solvent- or oil-based primers or paints
- Used for inspection, coding, layout or assembly operations
- Durable weather- and UV-resistant marks
- To prevent bleeding through the finished coat of paint, seal the marked areas with water-based epoxy paint
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses
Construction
Bridge fabrication
Ship building and repair

Surface Uses
Steel and iron
Structural steel

Details
12 | 144 (12x12)

Mark Size 17mm (11/16")
80725 ● Blue



BL-W® Paintstik®

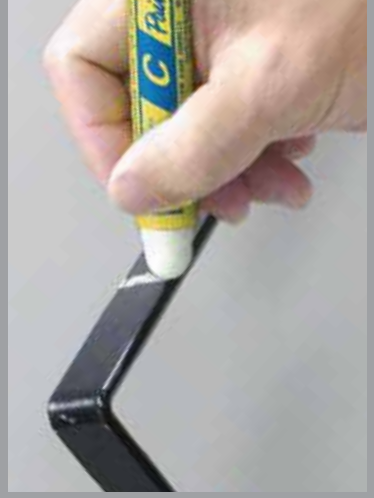
Features & Benefits
- Marks bleed through water-based primers or paints
- Used for inspection, coding, layout or assembly operations
- Durable weather- and UV-resistant marks
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses
Construction
Bridge fabrication
Ship building and repair

Surface Uses
Steel and iron
Structural steel

Details
12 | 144 (12x12)

Mark Size 17mm (11/16")
80735 ● Blue



C® Paintstik®

Features & Benefits
- Harder solid paint marker for superior marks on smooth or warmer surfaces
- Weather- and UV-resistant paint for long-lasting marks
- Marking range: -18°C to 66°C (0°F to 150°F)

Industry Uses
Steel mills and warehouses
Construction

Surface Uses
Cold rolled steel
Sheet metal
Plate glass
Plastic

Details
12 | 144 (12x12)

Mark Size 17mm (11/16")
80820 ● White
80821 ● Yellow



E® Paintstik®

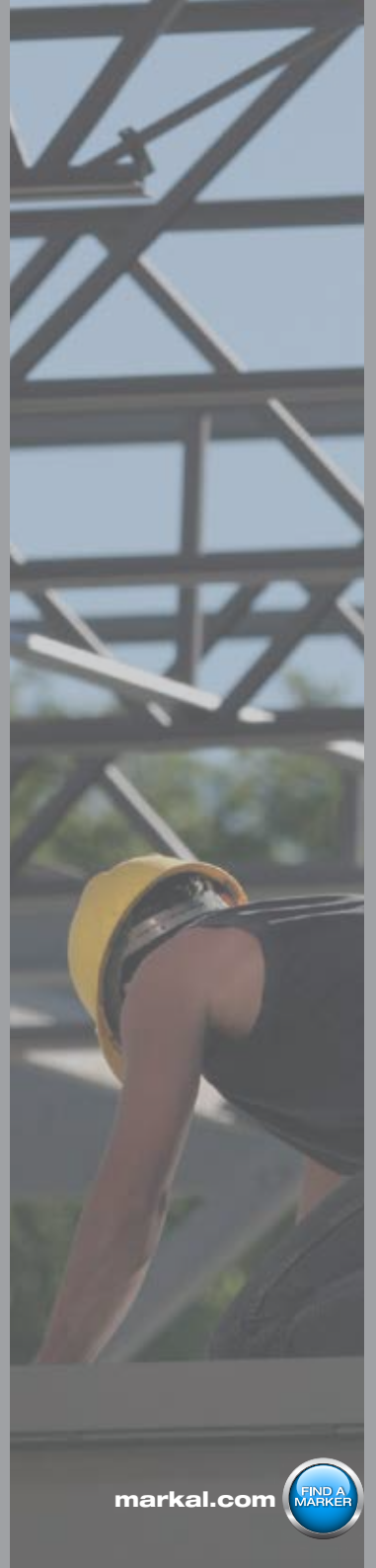
Features & Benefits
- High-intensity colors for coding, identification, layout, and assembly work
- Durable weather- and UV-resistant marks
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses
Steel mills and warehouses
Metal fabrication
Tire repair and retreading
Construction
Ship building and repair

Surface Uses
Steel and iron
Pipes and tubes
Rubber and tires
Lumber/timber
Plastic
Glass
Concrete, stone

Details
12 | 144 (12x12)

Mark Size 17mm (11/16")
88620 ● White
88621 ● Yellow
88624 ● Orange
88625 ● Blue







F® Paintstik®

Features & Benefits
- Vibrant colors for improved visibility
- Fluorescent marks glow under UV or black light
- For high visibility marking in outdoor applications use E® Paintstik
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses
Steel mills and warehouses
Forge and casting foundries
Tire repair and retreading
Lumber mills

Surface Uses
Steel and iron
Pipes and tubes
Rubber and tires
Glass
Plastic
Lumber/timber

Details


Mark Size 17mm (11/16")

82831	●	Fluorescent Yellow
82832	●	Fluorescent Red
82834	●	Fluorescent Orange
82835	●	Fluorescent Blue
82836	●	Fluorescent Green
82842	●	Fluorescent Pink



FAST DRY® Paintstik®

Features & Benefits
- Marks dry within 5 minutes on wet, oily, dry, and rough surfaces
- Quick-drying marks allow for immediate handling without smearing
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses
Metal fabrication
Ship building and repair
Steel mills and warehouses
Tire repair and retreading

Surface Uses
Pipes and tubes
Steel and iron
Rubber and tires
Glass
Lumber/timber

Details


Mark Size 17mm (11/16")

82720	●	White
82721	●	Yellow
82722	●	Red



M® and M-10® Paintstik®

Features & Benefits
- Marks will withstand immediate quenching in water or oil
- Ideal for welds, ingots, castings, forgings, and other annealed parts
- M Paintstik withstands 871°C (1600°F)
- M-10 Paintstik withstands 982°C (1800°F)
- Durable marks will not rub off, allowing for long-lasting identification

Industry Uses
Forge and casting foundries
Steel mills
Welding
Heat-treating

Surface Uses
Steel and iron
Aluminum

Details


Mark Size 17mm (11/16")

M Paintstik

81920	●	White
81921	●	Yellow
81922	●	Red
81923	●	Black

M-10 Paintstik

82020	●	White



N® Paintstik®

Features & Benefits
- Marks will not show through top coat of primer or finished layer of paint
- Ideal for ship building or other metal fabrication
- Solid paint formula designed for marking on wet, dry, oily, rusty, icy, smooth, or rough surfaces
- Marking range: -18°C to 66°C (0°F to 150°F)

Industry Uses
Ship building and repair
Metal fabrication
Construction

Surface Uses
Steel and iron
Lumber/timber
Glass
Plastic
Concrete, stone

Details


Mark Size 17mm (11/16")

82120	●	White
82121	●	Yellow
82123	●	Black



O-10® Paintstik®

The O-10 Paintstik is designed to penetrate through heavily oiled surfaces to leave dry, visible marks for instant identification.

Details

12 | 144 (12x12)

Mark Size 17mm (11/16")

82220 ● White

Features & Benefits

- Marks will not run or spread on oily surfaces for easy identification
- Paint marks are resistant to oil puddling found in steel coils
- Marking range: -18°C to 121°C (0°F to 250°F)

Industry Uses

Steel mills and warehouses
Oil refineries and production
Metal fabrication

Surface Uses

Steel and iron
Aluminum
Pipes and tubes



P® Paintstik®

The P Paintstik is designed for use in pickling baths or galvanizing operations. The marks completely remove and will not interfere with the zinc coating.

Details

12 | 144 (12x12)

Mark Size 17mm (11/16")

83420 ● White

Features & Benefits

- Marks remove in pickling baths to allow excellent adhesion for zinc coating
- Superior marking on rough, rusty, oily, or smooth surfaces compared to liquid paint markers
- Solid paint crayon makes wide, bold marks for instant identification
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses

Metal fabrication

Surface Uses

Steel



WS-3/8® Paintstik®

The smooth-writing WS-3/8 Paintstik is a removable solid paint crayon. The fine line marks are easily wiped away with water and will not ghost on non-porous surfaces.

Details

12 | 144 (12x12)

Mark Size 9.5mm (3/8")

82420 ● White
82421 ● Yellow
82422 ● Red
82423 ● Black

Features & Benefits

- Water soluble for easy removal before production or finishing
- Smaller diameter for finer line marking
- Ideal for temporary marking on non-porous surfaces
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses

Automotive assembly
Ship building and repair
Automotive aftermarket
Tire repair and retreading
Shipping supply
Textile

Surface Uses

Plastic
Glass
Painted metals
Polished aluminum
Cloth, fabric (textiles)
Rubber and tires
Pipes and tubes
Other non-porous metals

Lacquer-Stik®

Lacquer-Stik is a specially formulated solid paint crayon designed to color-brighten stamped or engraved lines and lettering.



Features & Benefits
- Highlighter, fill-in paint provides bold, bright colors for even the smallest engravings
- Rubs in and wipes off easily, dries quickly
- Paint stays flexible, expands and contracts with the surface, for long-lasting color
- No mess or waste, eliminates dripping paint
- Mark temperature resistance: up to 260°C (500°F)
- Meets U.S.A. federal specification TT-F-325a I and MIL-STD 171, Finish No. 30.1.1, Type I

Industry Uses
Sporting goods
Trophy engraving
Automotive aftermarket
Electronics

Surface Uses
Gun and gun sights
Plastic and ceramic
Computer components
Household appliances
Name plates
Tools, dials, knobs

Details

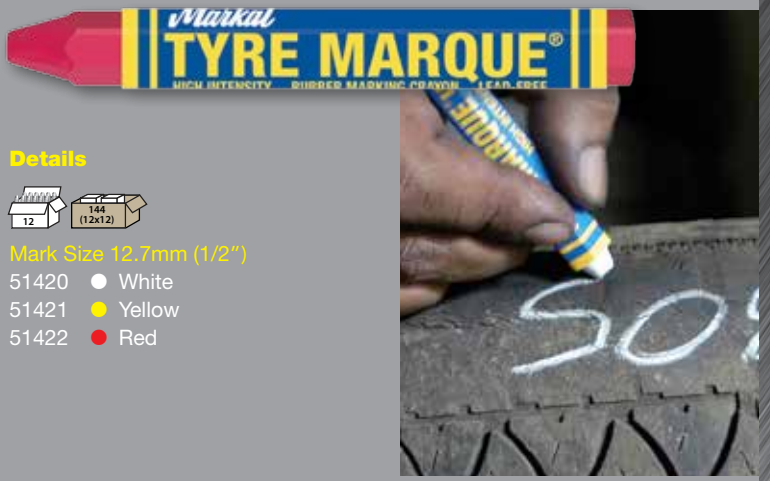
12 | 144 (12x12)

Mark Size 9.5mm (3/8")

51120	●	White
51121	●	Yellow
51122	●	Red
51123	●	Black
51131	●	Gold

TYRE MARQUE®

For temporary marking on tires, the TYRE MARQUE solid paint crayon marks smoothly on many surfaces. These bright, smear-resistant colors are easily seen in low light areas and are ideal for tire marking.



Features & Benefits
- Smooth marking on rough or dirty surfaces for bold, visible marks
- Marks easily on wet or cold rubber surfaces
- Marking range: -29°C to 54°C (-20°F to 130°F)

Industry Uses
Tire repair and retreading

Surface Uses
Rubber and tires

Details

12 | 144 (12x12)

Mark Size 12.7mm (1/2")

51420	●	White
51421	●	Yellow
51422	●	Red

ZEPHYR® Paintstik®

Ideal for temporary marking of glass and other non-porous surfaces, Zephyr solid paint crayon is wear-resistant for durable marking and can be wiped off with water.



Features & Benefits
- Water soluble for easy removal from glass and other non-porous surfaces
- Wider, more wear-resistant marks than WS-3/8®
- Marks will not damage surface or ghost after removal
- Marking range: -46°C to 66°C (-50°F to 150°F)

Industry Uses
Automotive aftermarket
Automotive assembly
Metal fabrication

Surface Uses
Glass
Ceramic
Painted metals
Steel
Rubber and tires

Details

12 | 144 (12x12)

Mark Size 17mm (11/16")

51321	●	Yellow



Quik Stik®

Quik Stik® is a smooth-marking solid paint crayon that dries quickly to leave a bold, permanent mark on most surfaces. The durable plastic twist-up holder prevents breakage. Keep hands, clothing, and tool-boxes clean with the industry's largest twist-up solid paint marker.

Details

12 | 72 (6x12)

Mark Size 17mm (11/16")

61049	Red
61050	Black
61051	White
61053	Yellow
61069	Green
61070	Blue
61071	Orange
61073	Purple

Features & Benefits

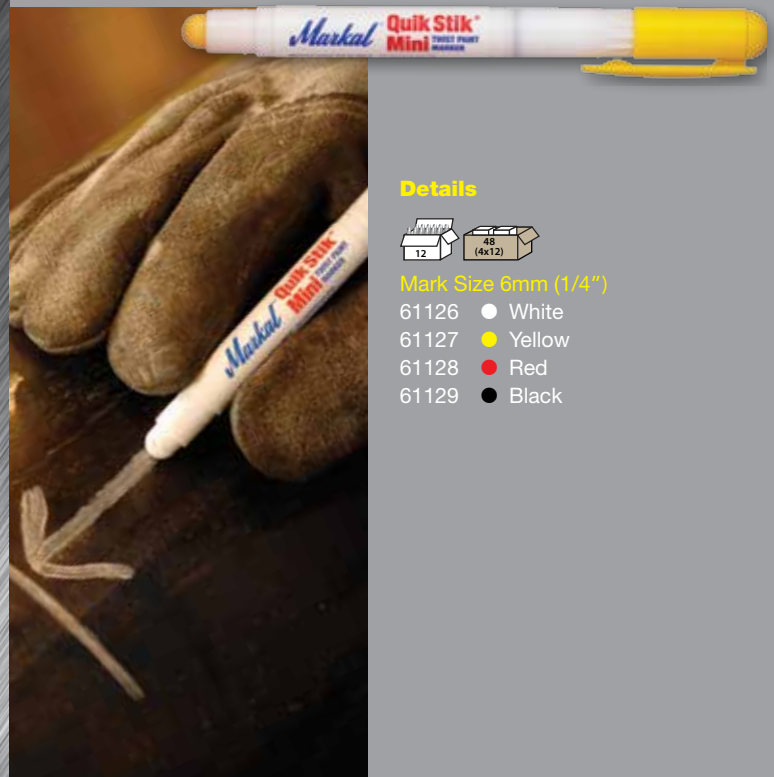
- Fast-drying, vibrant paint marks dry in 5 to 7 minutes
- 20% more paint than other brands, more marks for the money
- Marks on virtually any surface: wet, smooth, rough, or hot
- Airtight, self-storing cap keeps the marker clean and fresh between uses
- Weather- and UV-resistant paint for long-lasting mark
- Solid paint marker advances and retracts by turning twist-up knob
- Marking range: -18°C to 200°C (0°F to 392°F)

Industry Uses

Metal fabrication
Automotive aftermarket
Construction
Welding
Industrial process piping
Shipping supply

Surface Uses

Pipes and tubes
Glass, ceramic
Steel and iron
Lumber/timber
Concrete, stone
Rubber and tire
Plastic



Quik Stik® Mini

The Quik Stik® Mini is a compact solid paint marker in a convenient twist-up, plastic holder that is ideal for finer line marking on smooth or rough surfaces. This smaller version of the Markal® Quik Stik® stores easily in a pocket or tool belt and easily advances with the turn of a knob, allowing for full use of the marker. The high-performance paint dries quickly to leave bold, permanent marks on most surfaces.

Details

12 | 48 (4x12)

Mark Size 6mm (1/4")

61126	White
61127	Yellow
61128	Red
61129	Black

Features & Benefits

- Fast-drying, vibrant paint marks dry in 5 to 7 minutes
- Compact plastic holder with clip cap stores easily in pocket and keeps hands and clothing clean
- Marks on virtually any surface; wet, smooth, rough, or hot
- Weather- and UV-resistant paint for long-lasting marks
- Solid paint marker advances and retracts by turning twist-up knob
- Xylene and 2-Butoxyethanol free formula to reduce health risks
- Marking range: -18°C to 200°C (0°F to 392°F)

Industry Uses

Welding
Metal Fabrication
Automotive aftermarket
Construction
Industrial process piping
Shipping supply
Plastic

Surface Uses

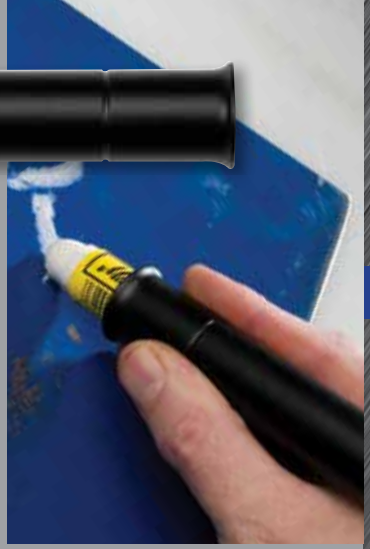
Steel and iron
Pipes and tubes
Glass, ceramic
Lumber/timber
Concrete, stone
Rubber and tires

101 Holder

The 101 heavy-duty metal holder reduces hand fatigue and protects Markal® solid paint markers in rough working conditions.



Marker not included.



Features & Benefits

- Heavy-duty metal holder for all standard size solid paint markers prevents unwanted breaking during use for longer work life
- Easy, push-up advance design for quick use
- Engineered for the following Markal standard 17 mm (11/16″) size solid paint markers: B®, B-E®, B-L®, BL-W®, C®, E®, F®, M®, M-10®, N®, 0-10®, P®, Zephyr®

Industry Uses

Steel mills and warehouses
Metal fabrication and construction
Ship building and repair
Lumber/timber
Tire repair and retreading

Surface Uses

Rubber and tires
Aluminum, steel and iron
Concrete and stone
Structural steel
Pipes and tubes

Details



Length 12.7 cm (5″)
85000 Marker Holder

102 Holder

The 102 metal holder protects solid paint markers, reduces hand fatigue and keeps workspace clean. Easy-to-advance, adjustable holder maximizes marker life.



Marker not included.



Features & Benefits

- Durable metal holder promotes long work-life for all standard 11/16″ (1.7 cm) size Markal solid paint markers.
- Adjustable mechanism easily advances paint marker
- Designed for use with the following Markal standard size solid paint markers: B, B-E, B-L, BL-W, C, E, F, M, M-10, N, 0-10, P
- For safer distance marking, 0.6 m (24″) and 0.9m (36″) extensions are available for special order

Industry Uses

Steel mills and warehouses
Metal fabrication and construction
Ship building and repair
Lumber/timber
Tire repair and retreading

Surface Uses

Rubber and tires
Aluminum, steel and iron
Concrete and stone
Structural steel
Pipes and tubes

Details



Length 15.2 cm (6″)
85100 Marker Holder

107 Holder

This durable metal holder is built for ease of marking and protects small diameter solid paint markers from breakage. Its push-button design makes for easy, single-hand use on the jobsite.



Marker not included.



Features & Benefits

- Dependable holder protects fine size Markal Paintstiks® for long work life
- Easy-to-use, push-button design reduces work downtime
- For safer distance marking, 0.6 m (24″) and 0.9m (36″) extensions are available for special order
- Designed for use with the following Markal solid paint markers: B-3/8, FAST-DRY® 3/8, and WS-3/8®

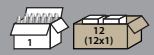
Industry Uses

Metal fabrication
Ship building and repair
Steel mills and warehouses
Tire repair and retreading
Automotive assembly

Surface Uses

Pipes and tubes
Steel and iron
Rubber and tires
Glass and plastic

Details

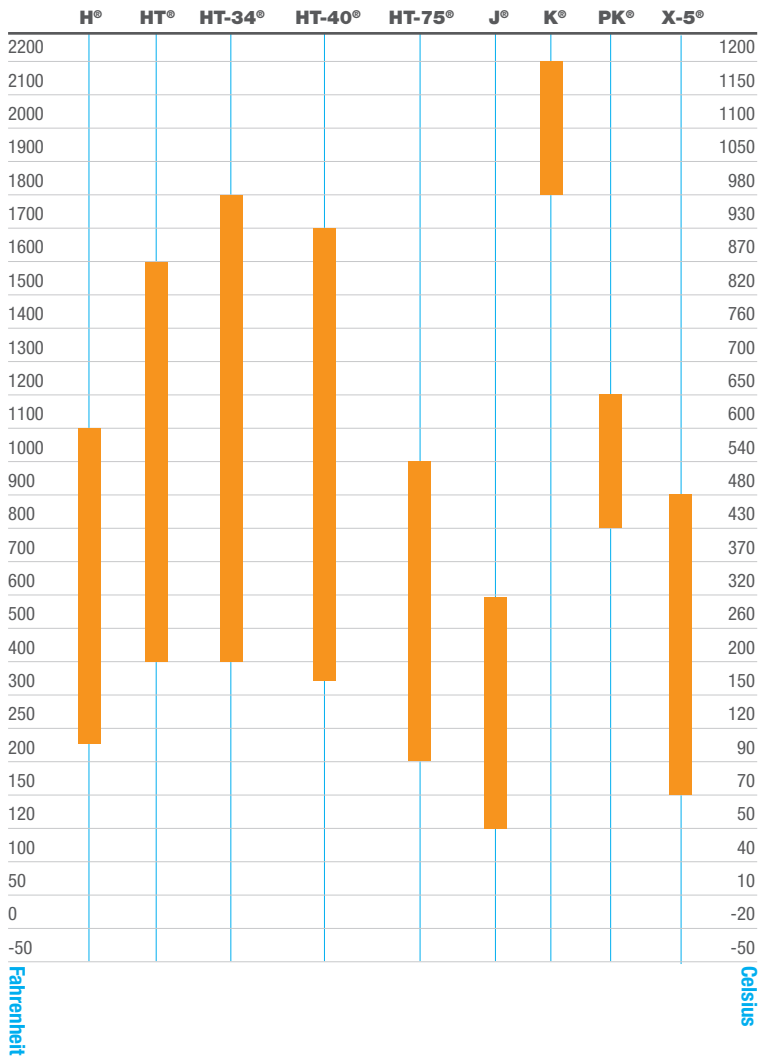


Length 14 cm (5.5″)
85300 Marker Holder

SOLID PAINT MARKERS-HOT SURFACE

EXTREME TEMPERATURES

The tools required in a smelter or forge and casting foundries must be able to consistently perform and be able to withstand extreme temperatures, and industrial markers are no exception. Our hot surface line of solid paint markers will only begin producing marks when in the stated working temperature, and will provide long-lasting, highly-visible marks that will not run, char, flow, discolor, peel, or crack. With rated temperatures, from 49°C (120˚F) to 1204°C (2200˚F) these markers are ideal for use on coils, billets, bars, lingots, and plates.





Features & Benefits

- Hot surface marker writes on hot castings, forgings, coils, billets, plates, and other hot metal surfaces
- Fast-drying marks are permanent and will not run, char, flow, discolor, peel, or crack
- Forgings and parts can be immediately dipped into cold water baths without damaging the marks
- Real paint for long-lasting, highly-visible marks

Industry Uses

Forge and casting foundries
Steel mills and warehouses
Aluminum mills
Smelting mills

Surface Uses

Coils
Billets and bars
Castings and pigs
Ingots and plates
Rails and beams
Glass

H® Paintstik®

Marking range:
107°C to 593°C
225°F to 1100°F

Details

144

Mark Size 9.5mm (3/8″)

81020 White
81021 Yellow
81022 Red
81023 Black
81025 Blue
81026 Green



HT® Paintstik®

Marking range:
204°C to 871°C
400°F to 1600°F

Details

144

Mark Size 9.5mm (3/8″)

81220 White
81221 Yellow
81222 Red
81223 Black
81225 Blue
81226 Green



HT-34® Paintstik®

Marking range:
204°C to 982°C
400°F to 1800°F

Details

144

Mark Size 9.5mm (3/8″)

84720 White



HT-40® Paintstik®

Marking range:
177°C to 927°C
350°F to 1700°F

Details

12 144 (12x12)

King Size

Mark Size 19mm (3/4″)

81610 White



FIND A MARKER markal.com



Features & Benefits

- Hot surface marker writes on hot castings, forgings, coils, billets, plates, and other hot metal surfaces
- Fast-drying marks are permanent and will not run, char, flow, discolor, peel, or crack
- Forgings and parts can be immediately dipped into cold water baths without damaging the marks
- Real paint for long-lasting, highly-visible marks

Industry Uses

Forge and casting foundries
Steel mills and warehouses
Aluminum mills
Smelting mills

Surface Uses

Coils
Billets and bars
Castings and pigs
Ingots and plates
Rails and beams
Glass

HT-75® Paintstik®

Marking range:
98°C to 538°C
200°F to 1000°F

Details

12 | 144 (12x12)

King Size
Mark Size 19mm (3/4")
84820 ● White



J® Paintstik®

Marking range:
49°C to 316°C
120°F to 600°F

Details

144

Mark Size 9.5mm (3/8")
81720 ● White



K® Paintstik®

Marking range:
982°C to 1204°C
1800°F to 2200°F

Details

12 | 144 (12x12)

King Size
Mark Size 19mm (3/4")
81820 ● White



X-5® Paintstik®

Marking range:
66°C to 482°C
150°F to 900°F

Details

144

Mark Size 9.5mm (3/8")
82520 ● White
82521 ● Yellow



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PK® Paintstik®

Marking range:
427°C to 649°C
800°F to 1200°F

Features & Benefits
- Hot surface paint crayon for temporary marks prior to the galvanizing process
- Temporary marks allow for entire use of coil
- Marks will not contaminate the steel surface for future processing operations
- Temporary marks will not run, char, or discolor
- Marking outside the temperature range may result in incomplete mark removal

Industry Uses
Steel mills and warehouses
Metal fabrication

Surface Uses
Hot steel coils
Metal plates and sheets
Pipes and tubes

Details
144

Mark Size 9.5mm (3/8″)
81200 ● White

FIND A MARKER **markal.com**

100 Holder

Features & Benefits
- Durable wooden holder protects the marker during use for long marking life.
- Adjustable metal ring secures marker in holder
- Designed for use with the following Markal® hot surface solid paint markers: H®, HT®, HT-34®, HT-40®, J®, X-5®

Industry Uses
Steel mills
Forge and casting foundries
Heat-treating
Metal fabrication
Metal production

Surface Uses
Hot metal surfaces
Rubber and tires

Details
1 | 12 (12x1)

Length 10.2cm (4″)
85500 Marker Holder

102K Holder

Features & Benefits
- Long holder length protects the user from dangerous heat
- Fast button advancing for high production, even with heavy-duty gloves
- Designed for use with the following Markal hot surface solid paint markers: K®, HT-75®, HT King size, HT-34 King size
- For safer distance marking, 0.6 m (24″) and 0.9m (36″) extensions are available for special order

Industry Uses
Steel mills
Forge and casting foundries
Metal production

Surface Uses
Hot-rolled steel
Hot metal surfaces

Details
1 | 12 (12x1)

Length 18.4cm (7 1/4″)
85200 Marker Holder

111 Holder

Features & Benefits
- The longest metal holder for hot surface marking
- Durable, push-button metal holder is easy to use, even with heavy-duty gloves
- Designed for use with the following Markal hot surface solid paint markers: H®, HT®, HT-34®, HT-40®, J®, X-5®
- For safer distance marking, 0.6 m (24″) and 0.9m (36″) extensions are available for special order

Industry Uses
Steel mills
Forge and casting foundries
Heat-treating
Metal fabrication
Metal production

Surface Uses
Rubber and tires
Hot metal surfaces

Details
1 | 12 (12x1)

Length 28cm (11″)
85700 Marker Holder

WELDING MARKERS

LONG-LASTING AND VISIBLE

The first step to creating a durable, long-lasting weld is using the best tools available to meet the level of precision required during the process. Markal® offers the best in economical and specialized welding markers to produce longer-lasting and more visible marks guaranteed to not contaminate or cause inclusions, pitting, or porosity in the weld. The temporary range of welding markers includes Welders Pencils, soapstone, and other high-visibility layout markers.



Silver-Streak® & Red-Riter® Welders Pencils

Markal® Silver-Streak® and Red-Riter® Welders Pencils make torch-resistant marks that will not burn or rub off like soapstone. Ideal for fine line marking during metal layout and fabrication, these highly visible marks illuminate when cutting or welding.



Features & Benefits

- Reflective lead illuminates when cutting or welding for improved visibility
- The soapstone alternative: marks resist torch flames; will not rub, burn or blow off.
- Durable marks will not scratch or abrade metal surfaces
- Available in two highly visible colors: red for aluminum or other bright metals, silver for darker surfaces
- High-strength, hex-shaped pencil reduces barrel roll unlike competitive brands
- Pre-sharpened pencils can be easily resharpened with any standard pencil sharpener

Industry Uses

Welding
Metal fabrication
Ship building and repair
Bridge fabrication
Construction

Surface Uses

Steel and iron
Aluminum

Details

12 | 72 (6x12)

96101 Silver
96100 Red

Silver-Streak®

Markal® Silver-Streak® metal markers are ideal when highly-visible, torch-resistant marks are required during metal layout and fabrication work. The unique reflective lead is more visible through a welder's filter plate and will not rub, burn or blow off like soapstone. Marks on all metal surfaces including oily or wet.



Features & Benefits

- Highly visible marks illuminate when cutting or welding
- Superior to soapstone in markability and durability; will not rub, burn or blow off surface
- Marks on oily, wet or rusty metals, and will not scratch or abrade surfaces
- Available in flat and round shapes
- Durable holders prevent stick breakage
- Durable, mechanical holder prevents stick breakage and features a convenient, built-in sharpener and pocket clip for easy storage.

Industry Uses

Welding
Metal fabrication
Ship building and repair
Bridge fabrication
Construction

Surface Uses

Steel and iron
Aluminum
Stainless steel

Details

Complete

1 | 24 (24x1)

96004 Flat

Refill Pack

1 | 24 (24x1)

96018 Flat Refill - 25 refills/pack
96007 Round Refill - 6 refills/pack

Holder

1 | 24 (24x1)

96006 Round Holder



Red-Riter®

Ideal for use on aluminum and stainless steel, Red-Riter® metal markers deliver high visibility marks, which are resistant to torch flames. The red lead is more visible through a welder's filter plate. Unlike soapstone, the durable marks will not rub, burn or blow off during metal layout and fabrication work.

Details

Complete

1 | 24 (24x1)

96005 Flat

Refill Pack

1 | 24 (24x1)

96019 Flat Refill - 25 refills/pack

Features & Benefits

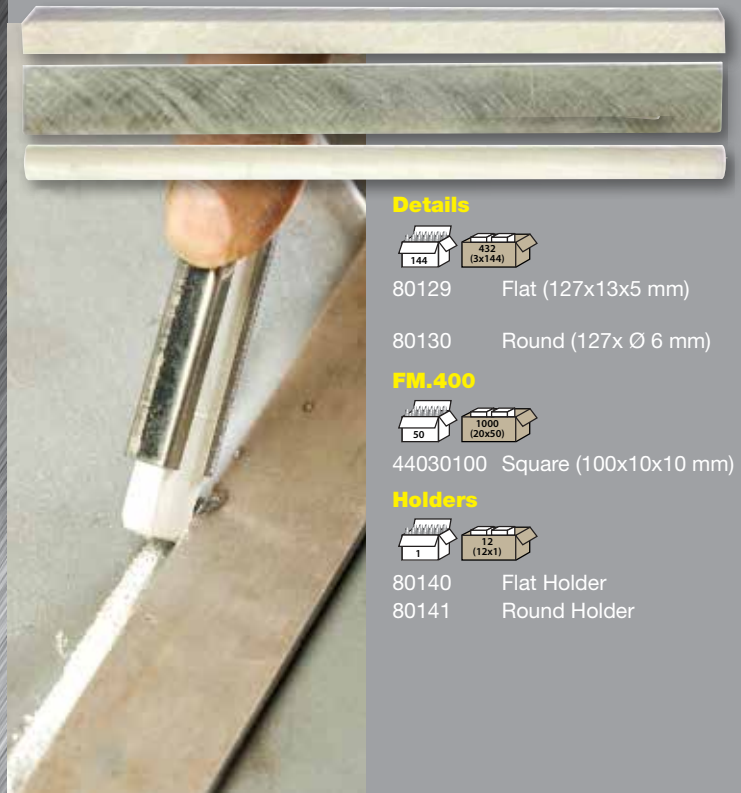
- Highly visible marks illuminate when cutting or welding
- Superior to soapstone in mark-ability and durability; will not rub, burn or blow off surface
- Marks on oily, wet or rusty metals, and will not scratch or abrade surfaces
- Rugged metal holder prevents stick breakage and includes handy pocket clip for easy storage when not in use

Industry Uses

Welding
Metal fabrication
Ship building and repair
Bridge fabrication
Construction

Surface Uses

Aluminum
Stainless steel
Steel and iron



Soapstone

All-natural soapstone is the economical, versatile solution for temporary marking during welding operations. Marks are easily removed and will not contaminate welds.

Details

144 | 432 (3x144)

80129 Flat (127x13x5 mm)

80130 Round (127x Ø 6 mm)

FM.400

50 | 1000 (20x50)

44030100 Square (100x10x10 mm)

Holders

1 | 12 (12x1)

80140 Flat Holder
80141 Round Holder

Features & Benefits

- Temporary marks can be easily removed
- Marks will not contaminate weld or damage metal surface
- Holders for flat and round shapes reduce breakage
- For more visible and durable marks, see our Silver-Streak® and Red-Riter metal markers

Industry Uses

Welding
Metal fabrication
Ship building and repair
Bridge fabrication
Construction
Textile

Surface Uses

Steel and iron
Aluminum
Stainless steel
Cloth, fabric (textiles)

TEMPERATURE INDICATORS



FAST ACCURATE RESULTS

For the best in weld integrity, heating base materials to highly-specific temperatures is required and our line of Thermomelt® temperature indicators offers the best combination of speed, ease of use, and accuracy. The simple-to-use stick melts quickly when applied to a surface at the stated temperature on the package to guarantee fast and accurate results every time without calibration.



Thermomelt® HEAT-STIK®

Thermomelt HEAT-STIK markers are a quick, low-cost method to accurately measure surface temperatures of various metals and equipment. Available in 88 Fahrenheit temperatures, the stick-in-holder design provides convenience and durability for long-lasting use in the workshop or in the field.

Features & Benefits

- When the stick melts, the precise temperature is reached
- Long-lasting stick is 33% bigger than competition
- Accurate to within +/- 1% of Fahrenheit and +/- 3% Celsius rated temperatures; no need for sensor calibration
- Ideal for: pre-heating, post-weld heat treating, interpass temperature monitoring, stress-relieving and annealing
- Protective holder, shirt-clip and adjustment ring prevents breakage and improves handling
- Meets welding codes: AWS D1.1, ANSI/ASME Code B32.1 & B31.3, ASME Code Sec. I, III, and VII, NIST Traceable

Industry Uses

Welding
Ship building and repair
Bridge fabrication
Metal fabrication
Forge and casting foundries
Railroad
Steel mills

Surface Uses

Steel and iron

Detail



	F	C
86400	100°F	38°C
86409	109°F	43°C
86418	113°F	45°C
86427	119°F	48°C
86436*	125°F	52°C
86445	131°F	55°C
86454	138°F	59°C
86463*	150°F	66°C
86472	163°F	73°C
86481*	175°F	79°C
86490	182°F	83°C
86499	188°F	87°C
86508	194°F	90°C
86517*	200°F	93°C
86522	206°F	97°C
86526	213°F	101°C
86535	219°F	104°C
86544*	225°F	107°C
86553	238°F	114°C
86562*	250°F	121°C
86569	256°F	124°C
86571	263°F	128°C
86580	269°F	132°C
86589*	275°F	135°C
86598	282°F	139°C
86607	288°F	142°C
86616	294°F	146°C
86625*	300°F	149°C
86634	306°F	152°C
86643	313°F	156°C

	F	C
86652	319°F	159°C
86661*	325°F	163°C
86670	331°F	166°C
86679	338°F	170°C
86688	344°F	173°C
86697*	350°F	177°C
86706	363°F	184°C
86715*	375°F	191°C
86724	388°F	198°C
86733*	400°F	204°C
86742	413°F	212°C
86751*	425°F	218°C
86769*	450°F	232°C
86778	463°F	239°C
86787*	475°F	246°C
86796	488°F	253°C
86805*	500°F	260°C
86814*	525°F	274°C
86823*	550°F	288°C
86832	575°F	302°C
86841	600°F	316°C
86850	625°F	329°C
86859*	650°F	343°C
86868	700°F	371°C
86877	750°F	399°C
86886	800°F	427°C
86895	850°F	454°C
86904	900°F	482°C
86922	950°F	510°C

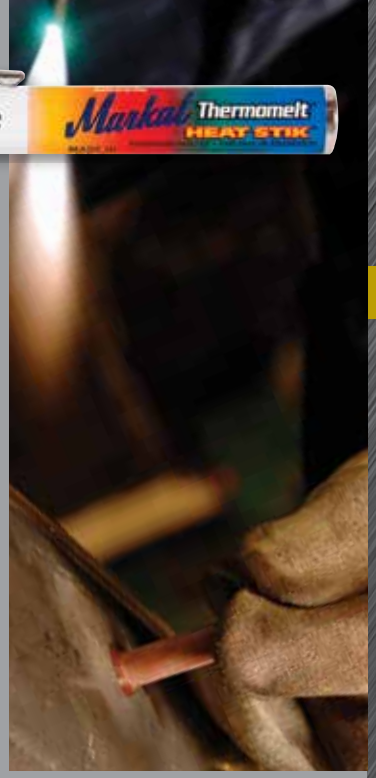
	F	C
86931	1000°F	538°C
86949	1050°F	565°C
86958	1100°F	593°C
86967	1150°F	621°C
86976	1200°F	649°C
86985	1250°F	677°C
86994	1300°F	704°C
87003	1350°F	732°C
87012	1400°F	760°C
87021	1425°F	774°C
87030	1450°F	788°C
87039	1480°F	804°C
87048	1500°F	816°C
87057	1550°F	843°C
87066	1600°F	871°C
87075	1650°F	899°C
87084	1700°F	927°C
87093	1750°F	954°C
87102	1800°F	982°C
87111	1850°F	1010°C
87120	1900°F	1038°C
87129	1950°F	1066°C
87138	2000°F	1093°C
87147	2050°F	1121°C
87156	2100°F	1149°C
87165	2150°F	1177°C
87174	2200°F	1204°C

** Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.*

Thermomelt® HEAT-STIK® Celsius

Thermomelt HEAT-STIK markers are a quick, low-cost method to accurately measure surface temperatures of various metals and equipment. Available in 33 Celsius temperatures, the stick-in-holder design provides convenience and durability for long-lasting use in the workshop or in the field.





Features & Benefits

- When the stick melts, the precise temperature is reached
- Long-lasting stick is 33% bigger than competition
- Accurate to within +/- 3% Celsius rated temperatures; no need for sensor calibration
- Ideal for: pre-heating, post-weld heat treating, interpass temperature monitoring, stress-relieving and annealing
- Protective holder, shirt-clip and adjustment ring prevents breakage and improves handling
- Meets welding codes: AWS D1.1, ANSI/ASME Code B32.1 & B31.3, ASME Code Sec. I, III, and VII, NIST Traceable

Industry Uses

Welding
Ship building and repair
Bridge fabrication
Metal fabrication
Forge and casting foundries
Railroad
Steel mills

Surface Uses

Steel and iron

Detail



	C		C
86402	50°C	86770	450°C
86404	75°C	86807	500°C
86401	100°C	86824	550°C
86408	125°C	86842	600°C
84664	150°C	86860	650°C
86410	175°C	86870	700°C
86516	200°C	86878	750°C
86405	225°C	86887	800°C
86563	250°C	86896	850°C
86407	275°C	86905	900°C
86626	300°C	86923	950°C
86698	350°C	86932	1000°C
86734	400°C	86960	1100°C
		86977	1200°C

Certified Thermomelt® HEAT-STIK®

Pre-certified to meet nuclear and military low-corrosion specifications for stainless-steel fabrication and other super alloys, the Markal® Certified Thermomelt HEAT-STIK is a quick method to accurately measure metal surface temperatures and equipment. The 20 available temperatures are lot traceable for jobsite documentation.





Features & Benefits

- Certified to meet the following U.S.A. and international specifications:

  -EDF PMUC
  -MIL - STD-2041D
  -U.S. DOE RDT F-7-3T (expired)
  -U.S. Navy C3070

- Engineered to meet:
  < 200 ppm total halogens
  < 250 ppm each low melting point metals
  < 300 ppm total low melting point metals
  < 200 ppm sulfur
- Individual lot analysis and certification available at **markal.com/certified** for quick, accurate reference
- Protective holder, shirt-clip and adjustment ring prevents breakage and improves handling

Industry Uses

Ship building and repair
Nuclear-power generation
Other power generation facilities
Oil and gas
Military

Surface Uses

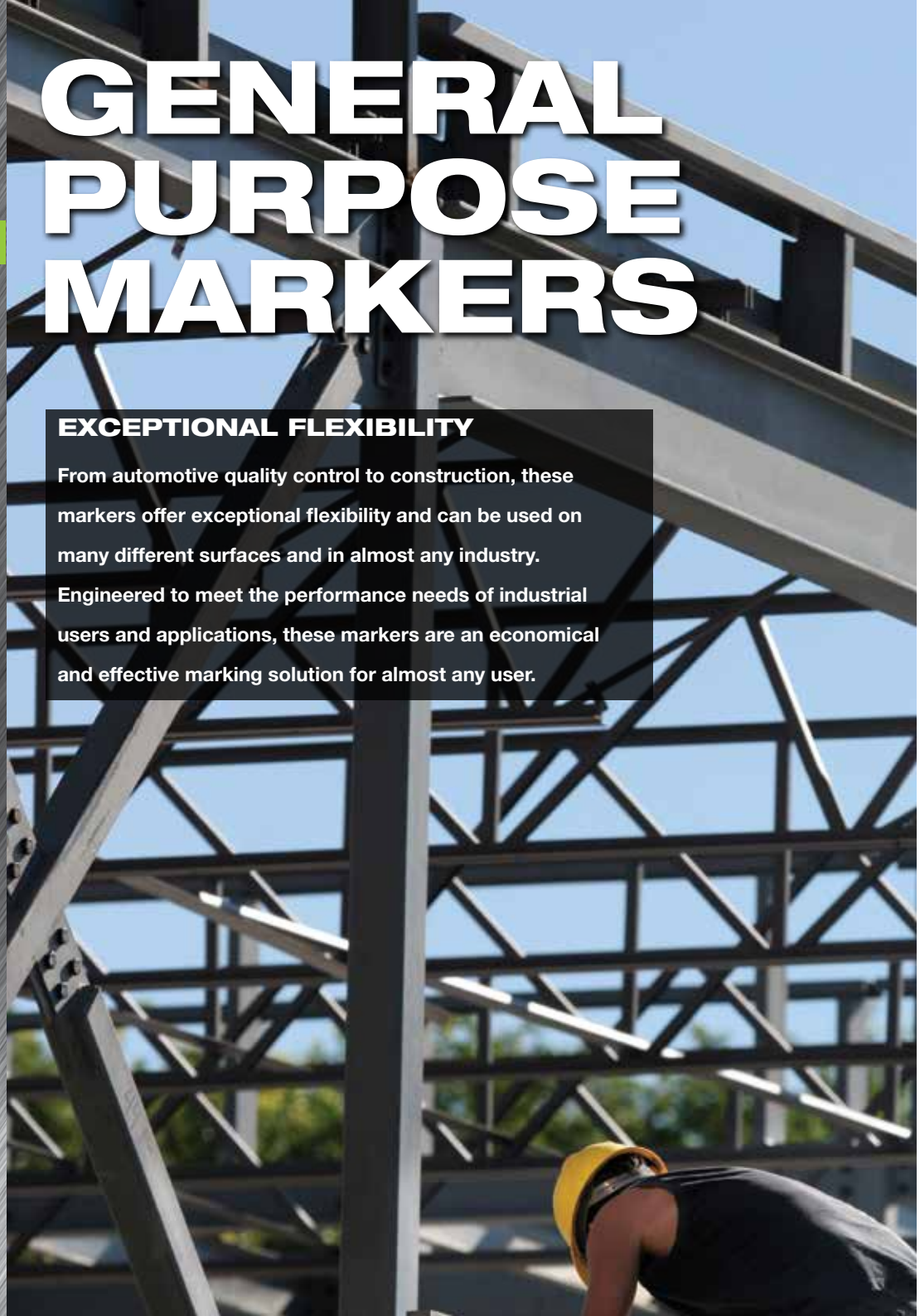
Stainless Steel
Alloy and superalloy metals

Details — 12 Case

	F	C
89100*	100°F	38°C
89125*	125°F	52°C
89150*	150°F	66°C
89175*	175°F	79°C
89200*	200°F	93°C
89225*	225°F	107°C
89250*	250°F	121°C
89275*	275°F	135°C
89300*	300°F	148°C
89325*	325°F	163°C
89350*	350°F	177°C
89375*	375°F	191°C
89400*	400°F	204°C
89425*	425°F	218°C
89450*	450°F	232°C
89475*	475°F	246°C
89500*	500°F	260°C
89525*	525°F	274°C
89550*	550°F	288°C
89650*	650°F	343°C

** Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements.*

GENERAL PURPOSE MARKERS



EXCEPTIONAL FLEXIBILITY

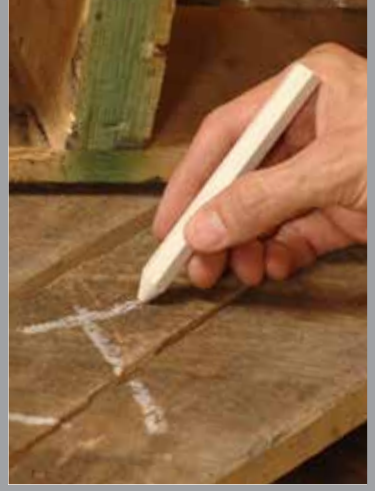
From automotive quality control to construction, these markers offer exceptional flexibility and can be used on many different surfaces and in almost any industry. Engineered to meet the performance needs of industrial users and applications, these markers are an economical and effective marking solution for almost any user.

	FM.120	PRO-EX®	LUMBER CRAYON 200	LUMBER CRAYON 500	OPTIMARK®	SCAN-IL® PLUS	ULTRASCAN®	TRADES-MARKER®	TRADES-MARKER® WP	CHINA-MARKER	FM.213 / FM.220 / FM.230	ZS.124 / ZS.130	ZS.224 / ZS.230	ZS.324	ZS.424
PERMANENT															
Metals															
Standard steel, Clean, Dry		◉	◉					◉							
Standard steel, Rough	◉	◉	◉	◉				●		●					
Aluminium								◉		●					
Stainless Steel								◉		●					
Plastics															
Clean, Dry								◉		◉					
Rubber															
Clean, Dry								◉		◉					
Glass, Ceramic															
Clean, Dry								◉		●				●	
Lumber / Timber															
Clean, Dry	●	◉	●	◉				◉		◉		◉			
Grade mark readers					◉	◉	◉								
Rough	●	◉	●	◉				●		●		●			
Wet		◉	●					●		●					◉
Brick, Stone															
Clean, Dry	●	◉	◉	●				◉		●					
Rough															
Wet															
Cardboard, Paper															
Clean, Dry	◉	◉	●	◉				◉		◉				◉	
Painted Surface															
Clean, Dry								◉		●				●	
Tile, Polished Stone															
Clean, Dry		●						◉		◉			●	◉	
REMOVABLE															
Metals															
Standard steel, Clean, Dry									◉		◉				
Aluminium											◉				
Stainless Steel									◉		◉				
Plastics															
Clean, Dry									◉						
Glass, Ceramic															
Clean, Dry									◉						

◉ *Prefered Selection* ◉ *Secondary Selection*

Industry Uses
Construction
Stone and masonry
Lumber and timber industry

Surface Uses
Wood
Concrete
Stone
Plastic
Rubber
Rough Metal



FM. 120

Markal® FM.120 is a wax-based marking crayon that works in all weather conditions. The marks are weather- and fade-resistant for long-lasting visibility

Features & Benefits
- Marks on rough surfaces, such as concrete, wood, steel, and card-board
- Formulated for weather- and fade-resistant marking on indoor and outdoor surfaces
- Softer formula allows for superior marking in cold climates
- Available in 6 bright colors for instant identification
- Marking range: -20°C to 50°C (-4°F to 122°F)

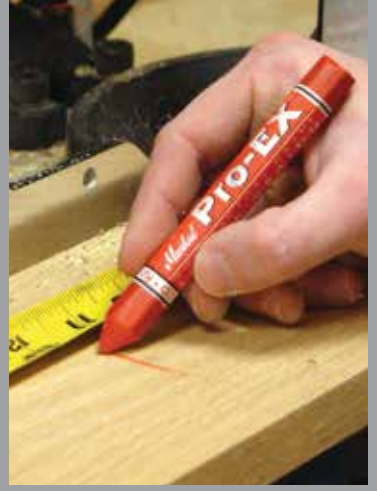
Details

12 | 72 (6x12)

Size 120mm x 11mm

44010100	●	White
44010200	●	Yellow
44010300	●	Red
44010400	●	Blue
44010500	●	Green
44010600	●	Black





Pro-EX®

Markal® Pro-EX® is a clay-based, extruded lumber crayon for bright marks on different surfaces in the construction trades. This premium-grade crayon works on wet or dry surfaces.

Features & Benefits
- Stronger formula for reduced breakage and longer marking life
- Superior performance on wet, frozen, or treated wood
- Clay-based formula for smooth, fast marking
- Marking range: -29°C to 66°C (-20°F to 150°F)

Details

12 | 144 (12x12)

Size 120mm x 11mm

80379	●	Brown
80380	●	White
80381	●	Yellow
80382	●	Red
80383	●	Black
80384	●	Orange
80385	●	Blue
80386	●	Green
80387	●	Pink
80388	●	Purple





LUMBER CRAYON 200

Markal® Lumber Crayon 200 is a soft, standard-grade lumber crayon for general-use marking and works well in cold climates. The wax-based mark is weather- and UV-resistant.

Features & Benefits
- Known in construction trades as “keel” or layout chalk
- Formulated for weather- and fade-resistant marking on most surfaces
- Special softer formula allows for superior marking in cold climates
- Marking range: -29°C to 66°C (-20°F to 150°F)

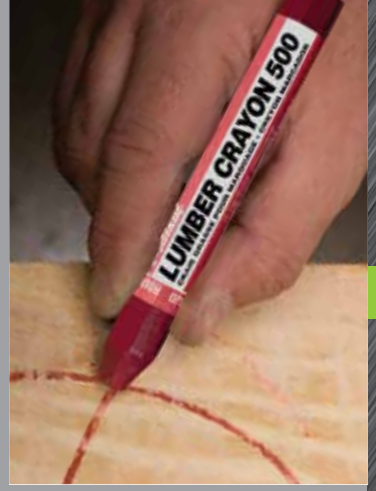
Details

12 | 144 (12x12)

Size 127mm x 13mm

80350	●	White
80351	●	Yellow
80352	●	Red
80353	●	Black
80354	●	Orange
80355	●	Blue
80356	●	Green





LUMBER CRAYON 500

Markal® Lumber Crayon 500 is a harder, clay-based crayon for longer marking life and is suitable for marking in hot climates. The bold, bright marks are weather- and UV-resistant.

Features & Benefits
- Known in construction trades as “keel” or layout chalk
- Clay-based formula provides longer marking mileage
- Special harder formula allows for superior marking in hot climates
- Available in fluorescent colors for high visibility marks
- Marking range: -29°C to 66°C (-20°F to 150°F)

Details

12 | 144 (12x12)

Size 127mm x 13mm

80320	●	White
80321	●	Yellow
80322	●	Red

12 | 72 (6x12)

80451	●	Fluo Yellow
80452	●	Fluo Red
80454	●	Fluo Orange
80462	●	Fluo Pink









ULTRASCAN®

Markal® ULTRASCAN® lumber grading crayons provide the best color separation and character recognition in the industry for grade mark readers.

Details

12 | 72 (6x12)

Size 17 mm (11/16")

82447 Yellow 63
82459 Bright Orange 44
82467 Bright Red 34
82468 Neon Orange 103
82469 Tan 45
82470 Tangerine 03

Features & Benefits

- Bright colors provide the highest fluorescent response of any lumber grading marker
- Maximum character recognition and accuracy for the lowest possible reject rates
- Each batch is tested to meet the specifications for Lucidyne ColorScan® and Newnes-McGehee grade mark readers.
- Unique formula provides excellent writing on wet and green lumber, even with fungicide coating
- 6 colors for superior color separation compared to competitive fluorescent wax crayons
- One hardness for all temperatures, eliminates duplicate inventory
- Dramatically longer use, provides up to 4X the writing life of competitive crayons.

Industry Uses
Lumber

Surface Uses
Dimensional lumber

SCAN-IT® Plus

Markal® SCAN-IT® Plus is a versatile grade marking crayon with multiple hardnesses and sizes to mark most lumber types in varying production environments.

Details

12 | 72 (6x12)

Size 17 mm (11/16")

Medium

82335 Blue Moon
82336 Orange Sherbet
82337 Watermelon Red
82339 Grasshopper Green
82346 Emerald Green

Hard

82235 Blue Moon
82236 Orange Sherbet
82237 Watermelon Red
82239 Grasshopper Green
82245 Pink Lightning
82246 Emerald Green

Features & Benefits

- Each batch is tested to meet the specifications for Lucidyne ColorScan® grade mark readers
- Superior color separation for accurate grading compared to competitive crayons
- Makes smear-resistant marks, reduces scanning errors
- Up to 14 fluorescent colors in three hardnesses for varying production environments

Industry Uses
Lumber /timber

Surface Uses
Lumber
Wood products

OPTIMARK®

Markal OPTIMARK® improves automatic cut-off saw accuracy. The fluorescent crayon makes bright, clear marks, eliminating missed scans.

Details

12 | 48 (4x12)

Size 12.7 mm (1/2")

82742 Red
82743 Orange
82744 Pink
82745 Red Orange
82746 Yellow Orange
82747 Burgundy

Features & Benefits

- Formulated to minimize color transfer to machinery, reducing work downtime and clean-up
- Lasts longer - up to 4x the writing life compared to ordinary crayons and fluorescent markers
- Six visually distinct fluorescent colors identifies multiple operators

Industry Uses
Lumber

Surface Uses
Dimensional lumber

TRADES-MARKER®



TRADES-MARKER® has the marking versatility of a paper-wrapped grease pencil combined with simple push-button advance that helps reduce cost and waste. This refillable, all-surface marker leaves a wear-resistant mark and is safe for all surfaces.

Features & Benefits
- Great for many surfaces including: smooth, rough, rusty, or dirty surfaces
- Marks are rub- and weather-resistant, leaving a bold, permanent mark
- Marker refills eliminate mess and paper waste of grease pencils, saving time and money
- Holder maximizes complete use of marker
- Durable plastic holder helps prevent breakage and keeps hands and clothing clean
- Push-button advancing makes for easy, one-handed use.

Industry Uses
Construction
Automotive and other transportation
Quality control
Welding
Metal fabrication
Textile

Surface Uses
Steel and iron
Pipes and tubes
Stone
Tile
Ceramics
Lumber
Cloth, fabric (textiles)
Glass
Plastic

Details

Starter Pack (1 Holder/12 Refills)



96130 White
96131 Yellow
96132 Red
96133 Black
96137 Orange

Refill Pack



96240 White
96241 Yellow
96242 Red
96243 Black
96247 Orange



TRADES-MARKER® WS



TRADES-MARKER® WS is a refillable, all-surface marker that leaves a removable mark and is safe for all surfaces. Marks can be wiped away easily with water.

Features & Benefits
- Marks can be easily wiped away with water, ideal for quality control and temporary marking needs
- Great for many surfaces including: smooth, rough, rusty, or dirty surfaces
- Marker refills eliminate mess and paper waste of grease pencils, saving time and money
- Durable plastic holder helps prevent breakage and keeps hands and clothing clean
- Push-button advancing makes for easy, one-handed use.

Industry Uses
Automotive and other transportation
Quality control
Glass
Metal fabrication

Surface Uses
Glass
Plastic
Stone
Non-porous surfaces
Steel and iron
Tile
Ceramics

Details

Starter Pack (1 Holder/12 Refills)



96190 White
96191 Yellow
96192 Black
96193 Red

Refill Pack

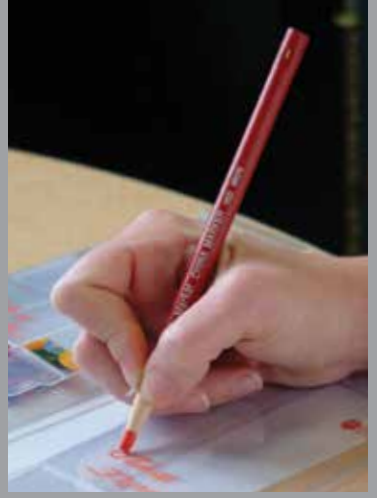


96180 White
96181 Yellow
96182 Black
96183 Red



Industry Uses
Automotive and other transportation
Metal fabrication
Quality control
Construction
Welding
Lumber and timber industry

Surface Uses
Glass/Ceramics
Metals
Cardboard/Paper
Plastic
Wood
Concrete
Rubber
Asphalt



CHINA MARKER

The paper-wrapped grease pencil is a smooth-writing, economical marker for marking almost any surface.

Features & Benefits
- Low-cost, general purpose marker for smooth writing on most surfaces
- Moisture-resistant marker, can be used effectively in most climates
- No sharpening required; pull string and unwrap paper
- High-visibility colors for instant identification

Details



96010 White
96011 Yellow
96012 Red
96013 Black
96014 Crimson
96015 Blue
96016 Green



FM. 213 / FM. 220 FM. 230

Industrial square chalk for temporary marking on most surfaces. Marks are easy to remove and its square design offers a variety of line widths.

Features & Benefits
- Marks are easily wiped away
- Square shape provides various mark sizes
- Paper holder keeps hands clean during use (FM.213)

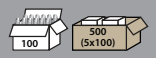
Details



FM.213
Size 90x13x13 mm
44060100 White



FM.220
Size 100x20x20 mm
44070100 White



FM.230
Size 100x30x30 mm
44080100 White



HOLDER FM. 001

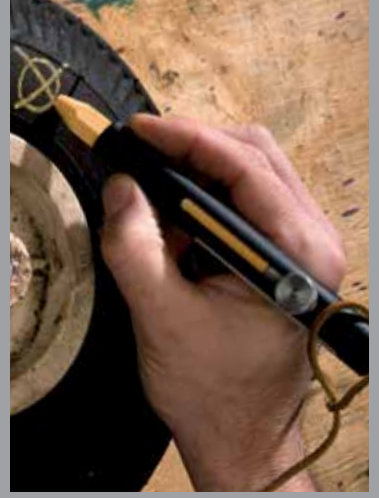
Durable aluminum holder helps prevent breakage and offers a comfortable grip during marker use.

Features & Benefits
- Metal teeth of holder firmly grip the crayon to secure marker during use
- Push-button design allows for easy advancing and retracting of the crayon
- Designed for use with the Markal FM.120 crayon

Details



Length 11.4 cm
44009999 Holder FM.001

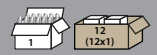


HOLDER 108

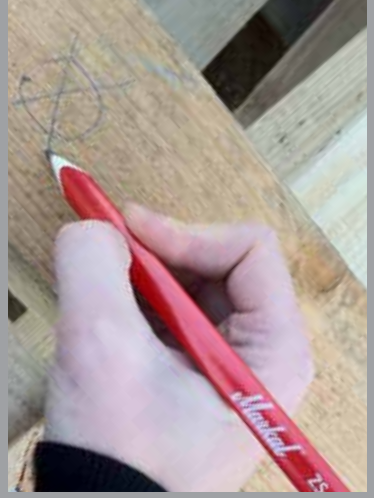
This specially-designed holder and leather wrist strap reduces hand fatigue and protects hex-shaped Markal markers on the jobsite.

Features & Benefits
- Heavy-duty metal holder helps prevent breakage, reducing costs
- Push-button advancing reduces downtime for increased productivity
- Comfortable leather wrist strap helps prevent dropping
- Designed for use with all 1,3cm (1/2") Markal hex-shaped markers: Lumber crayons #200, #500, Pro-EX®, Optimark®, and Tyre Marque®

Details



Length 15.2 cm (1/2")
85400 Holder 108



ZS.124 / ZS.130

ZS 124 & ZS.130 are rectangular carpenter pencils, ideal for marking wood, cardboard, and other surfaces. The premium quality wood resists breaking when stored with heavy tools. Available in 24 and 30 cm.

Features & Benefits

- Soft lead is easy to sharpen
- Rectangular design prevents rolling on surfaces and is easy to use
- Red varnish coating protects pencil for outdoor use
- High-quality wood resists breaking when stored with heavy tools
- Unsharpened when delivered

Details



44091124 24 cm ZS.124
44091130 30 cm ZS.130



44092124 24 cm ZS.124
44092130 30 cm ZS.130



ZS.224 / ZS.230

ZS 224 & ZS.230 are rectangular masonry pencils, ideal for marking on stone and other hard surfaces. The premium-quality wood resists breaking when stored with heavy tools. Available in 24 and 30cm.

Features & Benefits

- Soft lead is easy to sharpen
- Hard Graphite lead for great durability
- Rectangular design prevents rolling on surfaces and is easy to use
- Green varnish coating protects pencil for outdoor use
- High-quality wood resists breaking when stored with heavy tools
- Unsharpened when delivered

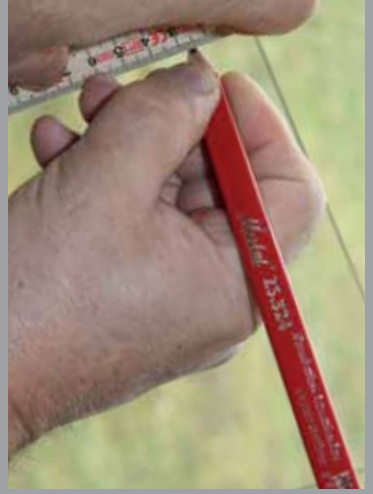
Details



44091224 24 cm ZS.224
44091230 30 cm ZS.230



44092224 24 cm ZS.224
44092230 30 cm ZS.230



ZS.324

ZS.324 is a red varnished triangular pencil, ideal for marking on every kind of smooth surfaces, including glass. The premium-quality wood resists breaking when stored with heavy tools.

Features & Benefits

- Soft lead is easy to sharpen
- Graphite lead easy to remove
- Triangular design prevents rolling on surfaces and fits well in the hand.
- Red varnish coating with dipped end protects pencil for outdoor use
- High-quality wood resists breaking when stored with heavy tools
- Sharpened when delivered

Details



44090324 24 cm ZS.324



ZS.424

ZS.424 is a blue varnished rectangular pencil, ideal for marking on wet wood. When used dry, it leaves a gray mark similar to a pencil's lead, but which cannot be erased. When used wet, its tip moistened by water produces an indelible bright purple writing.

Features & Benefits

- Soft lead is easy to sharpen
- Rectangular design prevents rolling on surfaces and fits well in the hand.
- Blue varnish coating protects pencil for outdoor use
- High-quality wood resists breaking when stored with heavy tools
- Unsharpened when delivered

Details



44091424 24 cm ZS.424



44092424 24 cm ZS.424

Industry Uses

Lumber and timber industry
Forestry
Construction

Surface Uses

Wood
Paper
Cardboard
Stone
Concrete
Bricks
Plastic
Glass
Metal
Ceramics
Cardboard
Paper

ENGRAVERS



MANUAL AND DEFINITIVE

Markal® engravers and etching markers leave permanent marks that outlast crayon, ink and paint marks. Our high performance micro-percussion, electric arc, or air-powered engravers use various marking techniques for glass, steel, tools, ceramics, plastics and most other industrial surfaces and tools.

PERMANENT	BT.002	CA.003	PN.500	SC.862	SC.865
Metals					
Construction Steel	◉	◉	◉	◉	⊙
Stainless Steel	◉	◉	◉	⊙	◉
Copper	◉	⊙	◉	⊙	◉
Nickel	◉	⊙	◉		◉
Lead	◉	⊙	◉		◉
Bronze	◉	⊙	◉		◉
Alloy (Standard hardness)	⊙	◉	⊙	⊙	◉
Alloy (middle hardness)	⊙	◉	⊙	⊙	◉
Alloy (high hardness)		◉			◉
Plastics					
Clean, Dry	◉		◉		
Glass, Ceramic					
Clean, Dry	◉		◉		
Painted Surface					
Clean, Dry	◉		◉		

◉ *Preferred Selection* ⊙ *Secondary Selection*

CA. 003

Markal® CA.003 is an electric arc engraver designed to mark conductive metal surfaces. With 100 arcs/second the arc engraver will leave a highly visible, permanent black mark that can outlast crayon or paint marks.



Features & Benefits

- Burns deeply into the conductive metals using a 40 watt arc strength and 100 arcs/second for bold, permanent marks
- Produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- Engraving marks are unaffected by weather and UV-light for long-lasting identification
- Fill in the deep marks for increased visibility with Markal Lacquer-Stik®
- Other electrodes available in 1 mm, 1. 3 mm, and 1.5 mm sizes for precise mark widths
- Carrying case included for easy storage and transport
- Product includes: 12-15V transformer, engraver, pack of ten 1 mm electrodes, conductive plate receptacle and carrying case
- One year parts and labor warranty
- Fast repairs made at LA-CO Industries Europe S.A.S. facility
- Quality-made in France since 1970
- CE approved

Industry Uses

Maintenance repair operations
Industrial manufacturing
Automotive and other transportation
Security and theft prevention
Welding
Quality control

Surface Uses

Tools
All conductive metals

Details

50421003 Complete machine
50422010 10 Electrodes 1.0 mm
50422013 10 Electrodes 1.3 mm
50422015 10 Electrodes 1.5 mm

Spare Parts

50400000 Transformer
50421001 Electric arc marking pen
50422011 Contact plate







BT. 002

Markal® BT.002 is a micro-percussion engraver designed to mark on multiple surfaces including glass, hard plastic, and hardened metal surfaces. With 100 impacts/second the engraver will leave a permanent mark that can outlast crayon or paint marks.

Details

50411002 Complete machine
50412001 10 standard Tips
50412002 Carbide Tip

Spare Parts

50400000 Transformer
50411003 Micro-Percussion Pen

Features & Benefits

- Micro-percussion tool produces 100 impacts/second for bold, permanent marks on multiple surfaces
- Produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- Engraving marks are unaffected by weather and UV-light for long-lasting identification
- Fill in the deep marks for increased visibility with Markal Lacquer-Stik®
- Complete with one box of ten tips and one carbide tip for marking hard plastic, glass, and hardened steel
- Carrying case included for easy storage and transport
- Product includes: 12-15V transformer, engraver, one carbide tip, one set of 10 standard tips, and carrying case
- One year parts and labor warranty
- Fast repairs made at LA-CO Industries Europe S.A.S. facility
- Quality-made in France since 1970
- CE approved

Industry Uses

Maintenance repair operations
Industrial manufacturing
Automotive and other transportation
Security and theft prevention
Welding
Quality control

Surface Uses

Tools
Hardened steel
Glass
Wood
Plastic





CC. 004

Markal® CC.004 is a micro-percussion and electric arc engraver set. The combination set provides flexibility for engraving any surface and will leave a permanent mark that can outlast crayon or paint marks.

Details

50421004 Complete machine
50422010 10 Electrodes 1.0 mm
50422013 10 Electrodes 1.3 mm
50422015 10 Electrodes 1.5 mm
50412001 10 standard Tips
50412002 Carbide Tip

Spare Parts

50400000 Transformer
50411003 Micro-Percussion Pen
50421001 Arc electric marking pen
50422011 Contact plate

Features & Benefits

- Engrave any surface with two unique engravers powered by one common transformer
- Micro-percussion tool produces 100 impacts/second for marking hard plastic, glass, and hardened steel
- Electric arc tool with 40 watt arc strength and 100 arcs/second burns a highly visible mark on all conductive metals
- Each engraver produces an accurate mark, and unlike crayons or paint, will not smear, crack, peel, or chip
- Fill in the deep marks for increased visibility with Markal Lacquer-Stik®
- Carrying case included for easy storage and transport
- Product includes: 12-15V transformer, micro-percussion and electric arc engravers, one carbide tip, one set of 10 standard tips, ten 1 mm electrodes, and carrying case
- One year parts and labor warranty
- Fast repairs made at LA-CO® Industries Europe S.A.S facility
- Quality-made in France since 1970
- CE approved

Industry Uses

Maintenance repair operations
Industrial manufacturing
Automotive and other transportation
Security and theft prevention
Welding
Quality Control

Surface Uses

Tools
Hardened steel
Glass
Wood
Plastic

PN. 500

Markal® PN.500 is an air-powered engraving machine that produces 500 impacts/second making this industrial product ideal for high volume assembly line operations. The pneumatic engraver will leave a permanent mark on most surfaces that can outlast crayon or paint marks.



Features & Benefits

- High-frequency impacts produce deep, highly-visible marks on various surfaces
- Ideal for continuous use on assembly lines or anywhere high-volume engraving is required
- Produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- High-quality steel body for industrial applications
- No transformer : lightweight for easy operation
- Use compressed air supply (6 BAR maximum) to adjust depth of marks
- Long one meter connection hose for flexibility at work station
- Fill in the deep marks for increased visibility with Markal Lacquer-Stik®
- Carbide tip 0.35 mm included
- Other tips available: 0.20 mm and 0.50 mm

Industry Uses

Industrial manufacturing
Automotive and other transportation
Quality control

Surface Uses

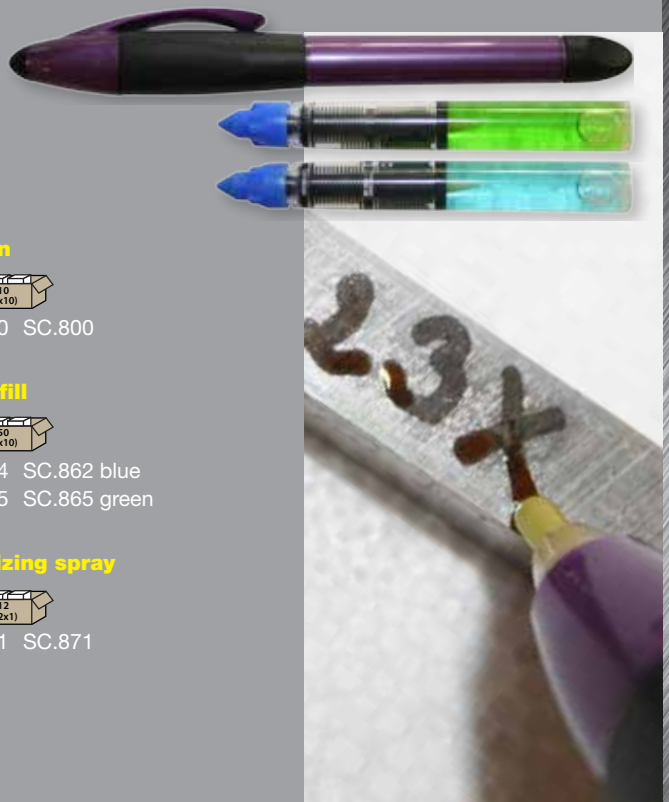
Steel
Alloy and super alloy metals
Glass
Plastic

Details

50431500 PN.500
50432001 CARBIDE TIP 0.20MM
50432002 CARBIDE TIP 0.35MM
50432003 CARBIDE TIP 0.50MM

SC. 800

Markal® SC.800 is an etching pen that releases acid on demand to permanently mark most metal surfaces. Use the SC.871 neutralizing solution to control the acid etching process. Two replacement cartridges are available for different metal etching applications



Features & Benefits

- Permanent etched mark for identification on various metal surfaces
- The acid etch produces an accurate mark and, unlike crayons or paint, will not smear, crack, peel or chip
- Hand-held etching marker is portable; does not need a power or air supply
- Ideal for identification, security, and theft prevention
- Two replaceable cartridges:
  - SC.862 blue cartridge to etch steel used in construction or tools
  - SC.865 green cartridge to etch stainless steel, copper, nickel, lead, alloy, and bronze
- SC.871 neutralizing aerosol stops the etching process for improved control

Industry Uses

Maintenance repair operations
Metal fabrication
Industrial manufacturing

Surface Uses

Steel
Alloy and super alloy metals

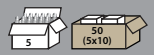
Details

Acid pen



50121800 SC.800

Acid Refill



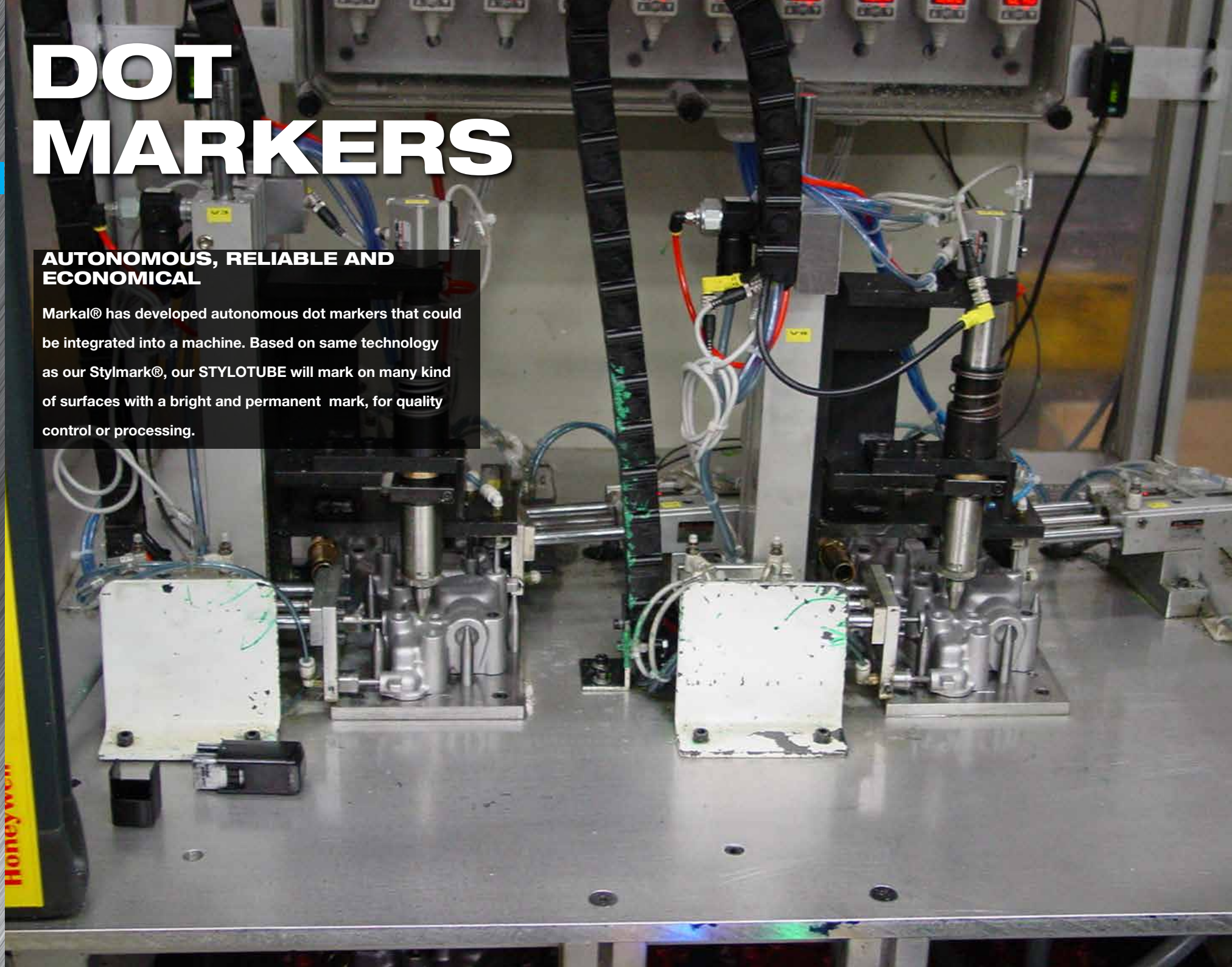
50122004 SC.862 blue
50122005 SC.865 green

Neutralizing spray



50122871 SC.871

DOT MARKERS



AUTONOMOUS, RELIABLE AND ECONOMICAL

Markal® has developed autonomous dot markers that could be integrated into a machine. Based on same technology as our Stylmark®, our STYLOTUBE will mark on many kind of surfaces with a bright and permanent mark, for quality control or processing.

Industry Uses
Quality control
Automotive and other transportation
Industrial manufacturing and assembly
Tire industry

Surface Uses
Steel and iron
Aluminum
Plastic
Rubber and tires
Cloth and fabric (textiles)



PN. 200

RS.PN200 is an automated metal-ball tip marker for high volume dot marking applications on assembly lines. Designed for easy installation into an automated process, the pressurized hands-free marking system allows for full use of the replacement RS-type cartridges.

Features & Benefits
- Fully automated marking system allows for continuous paint delivery on horizontal or vertical surfaces
- Requires use of compressed air supply (0.2 BAR)
- Pneumatic device improves productivity over manual marking products
- Pressurized system ensures full use of replacement paint cartridges
- Refillable stainless steel holder keep hands and clothing clean
- Durable steel ball tip marks on rough or smooth surfaces
- Offered in 3 sizes: 2 mm, 3 mm and 6 mm for varied mark thickness

Details

20020028 PN.200 2 mm
20030028 PN.200 3 mm
20060028 PN.200 6 mm



PN. 200D

Markal Stylotube RS.PN200D is an automated metal-ball tip marker designed for vertical, overhead or horizontal dot marking applications on assembly lines. The space-saving design allows for easier installation in automated processes and the pressurized hands-free marking system allows for full use of the replacement RS-type cartridges.

Features & Benefits
- Fully automated marking system allows for continuous paint delivery on horizontal or vertical surfaces
- Requires use of compressed air supply (0.2 BAR)
- Pneumatic device improves productivity over manual marking products
- Pressurized system ensures full use of replacement paint cartridges
- Refillable stainless steel holder keep hands and clothing clean
- Durable steel ball tip marks on rough or smooth surfaces

Details

20020030 PN.200D 2 mm
20030030 PN.200D 3 mm
20060030 PN.200D 6 mm



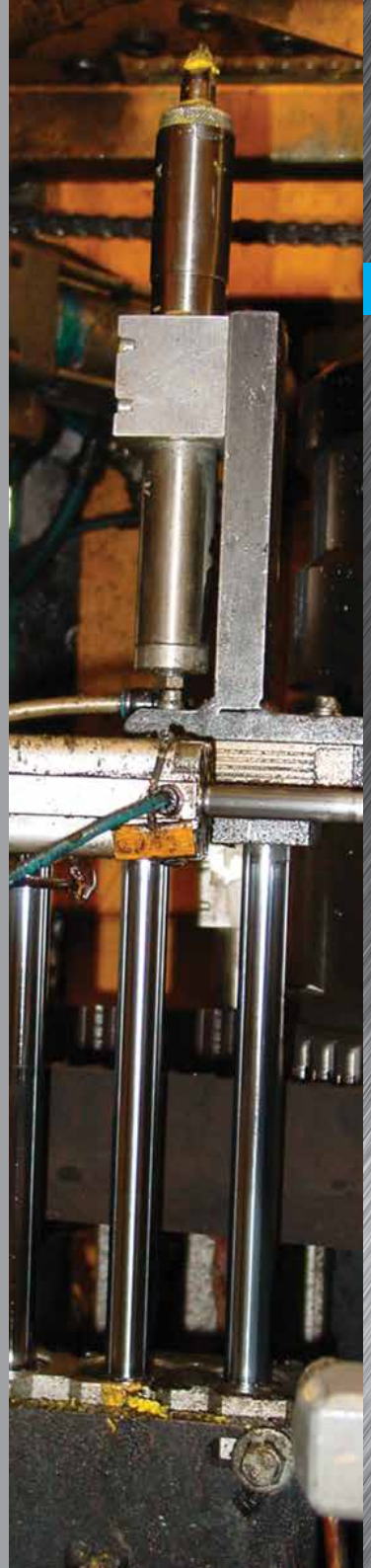
RS. 2000

Markal RS.2000 replacement paint cartridge can be used with all Markal Stylotube marking products. The low-sulfur, low-chloride, and low-halogen formula allows for safe marking on all surface, even oily.

Features & Benefits
- Unique paint designed to not drip on vertical or overhead surfaces
- 11 bold, bright paint colors are weather-, water-, and UV-resistant
- Safe for use on stainless steel and other alloy metals where corrosion resistance is a requirement
- Marking range -20°C to 70°C (-4°F to 158°F)
- Mark temperature resistance: 200°C (392°F)

Details

22200122 White
22200222 Yellow
22200322 Red
22200422 Blue
22200522 Green
22200622 Black
22200722 Orange
22200822 Purple
22200922 Grey
22201022 Pink
22201122 Brown



AEROSOLS & COATINGS

ANTI-CORROSIVE PAINT FOR MAINTENANCE

Markal® offers spray paints for industrial applications including protective coatings for untreated or galvanized steel, high performance line marking, construction and highway spot marking, and general purpose industrial spray paints with RAL international color matching standard.



MT.0994

MT.0994 is 400 ml high quality, fast-drying lacquer with colour match according to RAL international standard. Engineered for industrial use on metal or wood surfaces, this spray paint provides superior opacity, corrosion protection, and is weather- and fade-resistant for indoor or outdoor applications.



Features & Benefits

- Fast-drying and opaque formula allows for single-coat coverage, saving cost and time
- Available in 46 color options that match according to the RAL international standard, ideal for touch-up and repair
- Wear-, weather-, and UV-resistant paint formula provides strong adhesion for long-lasting coverage
- MT.0994 withstands 110°C (230°F)
- The RAL-matched, painted can neck allows for easy identification of internal paint color, even with misplaced caps

Industry Uses

Industrial manufacturing
Metal fabrication
Construction
Welding
Shipping supply
Ship building and repair
Oil and gas
Military
Machining shops

Surface Uses

Steel and iron
Plastic
Wood
Aluminum
Glass

Details



	RAL
47101003	1003
47101013	1013
47101015	1015
47101018	1018
47101021	1021
47101023	1023
47102000	2000
47102002	2002
47102004	2004
47103000	3000
47103001	3001
47103003	3003
47103020	3020
47104003	4003
47104006	4006
47105002	5002

	RAL
47105005	5005
47105010	5010
47105012	5012
47105015	5015
47105017	5017
47106001	6001
47106002	6002
47106005	6005
47106009	6009
47106011	6011
47106018	6018
47106019	6019
47107001	7001
47107015	7015
47107016	7016
47107032	7032

	RAL
47107035	7035
47108004	8004
47108012	8012
47108017	8017
47109002	9002
47109003	9003
47109005	9005
47100106	9005 Mat
47109006	9006
47109007	9007
47109010	9010
47100101	9010 Mat
47109016	9016
47100000	Gloss Varnish





Industry Uses
Industrial manufacturing
Metal fabrication
Construction
Welding
Ship building and repair
Oil and gas
Military
Machining shops
Utilities
Highways
Manufacturing facilities
Warehouses
Sports facilities
Parking lots



MT.7300

MT.7300 is a 500 ml, aluminum-zinc spray that protects galvanized and untreated steel. Its high quality, fast-drying formula is suitable for spot-welds, and resistant to petrol, chemicals, weather, and heat.

Features & Benefits
- Offers cold-applied galvanic protection for corrosion resistance
- Fast-drying and opaque formula allows for single-coat coverage, saving cost and time
- Wear-, weather-, and UV-resistant paint formula provides strong adhesion for long-lasting coverage on dry, clean surfaces
- High quality formula is suitable for soldering or spot-welds.
- MT.7300 withstands 250°C (482°F)

Surface Uses
Tools
Hardened steel
Glass
Wood
Plastic

Details



47020017 Gloss
47020009 Mat



MT.7303

MT.7303 is a 500 ml fast-drying spray primer to prepare surfaces prior to the finished coat, and protects against rust and surface corrosion. The fine mist spray fills small irregularities on wood, metal, aluminum, and other surfaces.

Features & Benefits
- Fast-drying and opaque formula allows for single-coat coverage, saving cost and time
- Prevents rust and corrosion to protect and extend life of materials
- Ideal for use as a primer for acrylic paint MT.0994
- Paint engineered to be easy to sand, both wet and dry (from grain 400)

Surface Uses
Steel and iron
Plastic
Aluminum
Wood

Details



47030009 Grey



SM.500

SM.500 is a spot marker with high-pigmented fluorescent paint for high visibility on any surface. This exterior-grade paint degrades slowly under UV exposure making it ideal for outdoor job sites like highways, commercial construction sites, pipelines, and land development.

Features & Benefits
- Paint adheres to most surfaces and dries quickly for increased work productivity
- Opaque fluorescent paint improves mark visibility in all weather conditions
- UV-resistant paint slowly degrades, extending mark life on outdoor surfaces
- Security cap prevents unintended paint release

Surface Uses
Asphalt, concrete, stone
Construction sites

Details



40100100 White
40100200 Fluo Yellow
40100400 Fluo Blue
40100500 Fluo Green
40101700 Fluo Orange
40101000 Fluo Pink
40101600 Fluo Red



LM.500

LM.500 is a high performance line marking aerosol spray paint used to outline areas such as street traffic patterns, warehouse usage areas, and parking lots. The 500 ml aerosol can, with special nozzle, provides up to 75m of long-lasting, weather- and wear-resistant marking lines.

Features & Benefits
- Weather- and wear-resistant paint is ideal for indoor or outdoor high-use areas
- Fast-drying paint and special nozzle provide precise lines for professional results
- Safe for use: no reportable irritants or harmful chemicals, no R52/53 labeling, and no aquatic toxicity

Surface Uses
Asphalt
Concrete and stone
Wood
Grass

Details



42100100 White
42100200 Fluo Yellow

FD. 50

We provide consumers, professionals and industries with user-friendly and environmentally sustainable solutions for protection and coating. Temalac FD50 is a fast drying, one component semigloss alkyd topcoat for steel surfaces, containing anti-corrosive pigments. Can be used as a single coat system. Perfect for maintenance operations.Available in all RAL colours.



Features & Benefits

- No priming : steel structure is ready with one coating, Cost effective and easy to use
- Weather- and wear-resistant paint
- Excellent gloss and colour retention when exposed to weathering.
- Ideal for use in machine shops with fast production cycles and in the field.
- Suitable also for electrostatic painting.
- Application by spray (to be thinned with Thinner 1006 around 6%)
- Recommended for steel frame-work, and different types of ma-chinery and equipment.
- Solid content 47 % by volume (ISO 3233) 64 % by weight
- Drying time (DFT 40 microns at 23°C) :

  Dust dry 15 minutes

  Touch dry : 90 minutes
- VOC : 5OOg:l
- Also available in 10l can.

Industry Uses

Maintenance services
Metal construction
Construction

Surface Uses

Steel and iron

Details

	RAL
49030303-RAL1001	1001
49030303-RAL1002	1002
49030303-RAL1003	1003
49030303-RAL1004	1004
49030303-RAL1006	1006
49030303-RAL1007	1007
49030303-RAL1013	1013
49030303-RAL1015	1015
49030303-RAL1016	1016
49030303-RAL1018	1018
49030303-RAL1021	1021
49030303-RAL1023	1023
49030303-RAL1028	1028
49030303-RAL1033	1033
49030303-RAL2002	2002
49030303-RAL2004	2004
49030303-RAL2009	2009
49030303-RAL3000	3000
49030303-RAL3001	3001
49030303-RAL3003	3003
49030303-RAL3009	3009
49030303-RAL3011	3011
49030303-RAL3016	3016
49030303-RAL3020	3020

	RAL
49030303-RAL3027	3027
49030303-RAL4008	4008
49030303-RAL4010	4010
49030303-RAL5000	5000
49030303-RAL5002	5002
49030303-RAL5003	5003
49030303-RAL5005	5005
49030303-RAL5008	5008
49030303-RAL5010	5010
49030303-RAL5012	5012
49030303-RAL5015	5015
49030303-RAL5017	5017
49030303-RAL6000	6000
49030303-RAL6001	6001
49030303-RAL6005	6005
49030303-RAL6010	6010
49030303-RAL6011	6011
49030303-RAL6014	6014
49030303-RAL6017	6017
49030303-RAL6018	6018
49030303-RAL6019	6019
49030303-RAL6021	6021
49030303-RAL6024	6024
49030303-RAL6026	6026
49030303-RAL6029	6029
49030303-RAL6032	6032

	RAL
49030303-RAL7001	7001
49030303-RAL7004	7004
49030303-RAL7005	7005
49030303-RAL7011	7011
49030303-RAL7015	7015
49030303-RAL7016	7016
49030303-RAL7022	7022
49030303-RAL7032	7032
49030303-RAL7035	7035
49030303-RAL7036	7036
49030303-RAL7037	7037
49030303-RAL7040	7040
49030303-RAL7042	7042
49030303-RAL7044	7044
49030303-RAL7045	7045
49030303-RAL8016	8016
49030303-RAL8019	8019
49030303-RAL8022	8022
49030303-RAL9001	9001
49030303-RAL9002	9002
49030303-RAL9003	9003
49030303-RAL9004	9004
49030303-RAL9005	9005
49030303-RAL9010	9010
49030303-RAL9011	9011
49030303-RAL9016	9016



TEMPIL® TEMPERATURE INDICATORS



LEADER IN ADVANCED TEMPERATURE INDICATION TECHNOLOGIES

Since 1938, Tempil® has been a leader in the development of innovative and accurate temperature indication technology for multiple markets. Our cost-effective solutions can monitor your supply chain, check critical temperatures in the manufacturing process or ensure a products' performance in the field. With our Tempil products, we have utilized advanced and reliable indication and prevention technology, to produce a range of surface temperature products that allow for safe and versatile surface measurements. Costefficient, easy-to-use, and available in multiple formats to meet your specific application needs. Tempil is delivering the surface measurement solutions you can count on, when you need them most.

TEMPILSTIK®

Tempilstik® is the original temperature-indicating stick. An inexpensive alternative for surface temperature measurement, Tempilstik® is rugged and easy-to-use with no gauges or electronics and no calibration is required, available in over 100 temperature ratings from 38°C to 1093°C (100°F to 2000°F).



Features & Benefits

- Accurate… results are +/- 1% of rated temperature.
- Easy to use… melts at designated temperature for easy visual inspection.
- Reliable… always in calibration
- Superior quality… free of contaminants such as sulfur, lead and halogens.
- Outlasts… designed to be stronger and last longer than other brands.
- Precise… unique slip-resistant metal holder secures stick and maximizes control.
- Efficient… fast results reduce set up and down time.
- Traceable… each marked by temperature, lot number and is NIST traceable.

Detail



Industry Uses

Welding
Ship building and repair
Bridge fabrication
Metal fabrication
Forge and casting foundries
Railroad
Steel mills

Surface Uses

Steel and iron

Tempilstik Fahrenheit Temp

28000	38 C / 100 F
28002	43 C / 109 F
28004	48 C / 119 F
28005	52 C / 125 F
28006	66 C / 150 F
28007	73 C / 163 F
28008	76 C / 169 F
28009	79 C / 175 F
28010	83 C / 182 F
28011	87 C / 188 F
28012	93 C / 200 F
28013	97 C / 206 F
28014	101 C / 213 F
28015	104 C / 219 F
28016	107 C / 225 F
28019	121 C / 250 F
28020	124 C / 256 F
28021	128 C / 263 F
28022	132 C / 269 F
28023	135 C / 275 F
28024	142 C / 288 F
28025	146 C / 294 F
28026	149 C / 300 F
28027	152 C / 306 F
28028	156 C / 313 F
28029	163 C / 325 F
28030	173 C / 344 F
28031	177 C / 350 F
28032	184 C / 363 F
28033	191 C / 375 F
28034	198 C / 388 F
28035	204 C / 400 F
28036	212 C / 413 F
28037	218 C / 425 F
28039	232 C / 450 F
28040	239 C / 463 F
28041	246 C / 475 F
28042	253 C / 488 F
28043	260 C / 500 F
28044	274 C / 525 F
28045	288 C / 550 F
28046	302 C / 575 F
28047	316 C / 600 F
28048	343 C / 650 F
28049	371 C / 700 F
28050	399 C / 750 F
28051	427 C / 800 F
28052	454 C / 850 F
28053	482 C / 900 F
28054	500 C / 932 F
28055	510 C / 950 F
28056	538 C / 1000 F
28057	550 C / 1022 F
28058	566 C / 1050 F
28059	593 C / 1100 F
28060	621 C / 1150 F
28061	649 C / 1200 F
28062	677 C / 1250 F
28063	704 C / 1300 F
28064	760 C / 1400 F
28065	788 C / 1450 F
28066	816 C / 1500 F
28067	843 C / 1550 F
28068	871 C / 1600 F
28069	899 C / 1650 F
28070	927 C / 1700 F
28072	982 C / 1800 F
28073	1038 C / 1900 F
28074	1066 C / 1950 F
28075	1093 C / 2000 F

Tempilstik Celsius Temp

28300	40 C / 104 F
28301	50 C / 122 F
28302	55 C / 131 F
28303	60 C / 140 F
28304	70 C / 158 F
28305	75 C / 167 F
28306	80 C / 176 F
28307	85 C / 185 F
28308	90 C / 194 F
28309	95 C / 203 F
28310	100 C / 212 F
28312	110 C / 230 F
28313	115 C / 239 F
28314	120 C / 248 F
28315	125 C / 257 F
28316	130 C / 266 F
28317	140 C / 284 F
28318	150 C / 302 F
28319	155 C / 311 F
28320	160 C / 320 F
28321	165 C / 329 F
28322	170 C / 338 F
28323	175 C / 347 F
28324	180 C / 356 F
28325	190 C / 374 F
28326	195 C / 383 F
28327	200 C / 392 F
28328	210 C / 410 F
28329	215 C / 419 F
28330	220 C / 428 F
28331	225 C / 437 F
28332	230 C / 446 F
28333	235 C / 455 F
28336	250 C / 482 F
28337	260 C / 500 F
28338	270 C / 518 F
28339	280 C / 536 F
28340	290 C / 554 F
28341	300 C / 572 F
28342	320 C / 608 F
28343	350 C / 662 F
28345	400 C / 752 F
28347	460 C / 860 F
28349	500 C / 932 F
28350	560 C / 1040 F
28351	600 C / 1112 F
28352	625 C / 1157 F
28355	700 C / 1292 F







TEMPILSTIK® KIT

Most useful for welding inspectors, welding instructors and welding supervisors, our Tempstik® Test Kits provide all the information needed for determining the proper temperatures for welding, heat treating, soldering, brazing and other operations involved in the fabrication of most metals.

Features & Benefits

- Provides information for measuring preheat, interpass and postweld heat treatment temperatures.
- Contains 20 Tempstik® indicators systematically spaced between 52°C (125°F) and 427°C (800°F) , a Preheating Chart and a Basic Guide to Ferrous Metallurgy.

- Stiks available in our Test Kits:

52°C	66°C	79°C	93°C
107°C	121°C	135°C	149°C
163°C	177°C	191°C	204°C
218°C	232°C	246°C	260°C
288°C	316°C	371°C	371°C

Details

28600 Test Kit

Application

Surface welding
Hard facing
Torch or flame cutting treating
Overlaying for corrosion resistance
Heat treating
Pipe bending
Die repair welding



IRT-16

The Tempil IRT-16 Infrared Thermometer is the industry's most advanced, non-contact, infrared technology based surface temperature measurement device.

Features & Benefits

- 16:1 distance to spot ratio
- Ergonomic hand grip
- Heavy-duty nylon holster case
- Four-digit backlit dual display
- °C or °F selectable readout
- Electronic trigger lock for continuous measurement
- Adjustable emissivity
- Min/Max/Avg and differential temperature modes
- Built-in jack for K-Type thermocouple
- NIST Certification is available

Details

24200 IRT16
24201 IRT16 NIST Certified
24202 K-Probe Thermocouple

Application

Welding and metal processing applications, hot metal forming operations
Hot and/or dangerous liquid and associated handling system components
Electrical equipment, high-voltage components and other electric utility applications
Difficult to reach internal machine components, bearing housings, motors ...



ESTIK®

Estik™ incorporates the latest in micro-thermocouple technology with a bold digital readout to instantly display the surface temperature with an accuracy of +/- 2%. Measuring surface temperature from 0°C to 537°C (32°F to 999°F), Estik can be used on polished or nonpolished surfaces.

Features & Benefits

- Ergonomic hand grip
- Three-digit backlit display
- °C or °F selectable readout
- No wires or cables
- Automatic shut-off
- Accurate reading whatever the surface material's emissivity.

Details

24290 Estik
24291 Estik NIST Certified
24252 Estik Thermocouple

Application

Solid stationary surface
Pipeline construction, pressure and non-pressure
Oil rig fabrication
Critical welding and metal fabrication applications
Industrial maintenance, motor and bearings housings

TEMPILAQ®

Optimal for cold and/or smooth surfaces, Tempilaq G Indicating Liquid is a quick, easy, and cost-effective method to verify the achievement of a specific temperature on a wide range of surfaces under dynamic conditions. When applied to a surface, Tempilaq quickly dries and forms a dull and opaque film. The film liquefies when heat is applied to that surface and the rated temperature is reached. As the surface cools, the liquefied Tempilaq re-solidifies to leave a distinctly different mark, confirming that the target temperature has indeed been achieved.



Features & Benefits

- 43 different temperature ratings from 79°C to 1038°C (175°F to 1900°F)
- Reliably accurate – melts within ±1% of rated temperature
- Easy to apply quick-drying fluid
- Non-flammable for maximum safety and unrestricted shipment
- Certification available upon request
- Numbered production lot for traceability

Application

Thermal mapping on multiple surfaces
Calibrating brake calipers
Wave soldering PC boards
Dielectric heat sealing
Post-forming plastic laminate
Annealing polished metal surfaces
Calculating glass temperatures at various heating stages
Calibrating industrial ovens

Detail

Tempilaq 2 Ounce (55 ml)

24400	79 C / 175 F
24401	93 C / 200 F
24402	107 C / 225 F
24403	121 C / 250 F
24404	135 C / 275 F
24405	149 C / 300 F
24406	156 C / 313 F
24407	163 C / 325 F
24408	177 C / 350 F
24409	184 C / 363 F
24410	191 C / 375 F
24411	204 C / 400 F
24412	218 C / 425 F
24413	232 C / 450 F
24414	246 C / 475 F
24415	253 C / 488 F
24416	260 C / 500 F
24417	274 C / 525 F
24418	288 C / 550 F
24419	302 C / 575 F
24420	316 C / 600 F
24421	343 C / 650 F
24422	371 C / 700 F
24423	399 C / 750 F
24424	427 C / 800 F
24425	454 C / 850 F
24426	482 C / 900 F
24427	510 C / 950 F
24428	538 C / 1000 F
24429	550 C / 1022 F
24430	566 C / 1050 F
24431	593 C / 1100 F
24432	621 C / 1150 F
24433	649 C / 1200 F
24434	677 C / 1250 F
24435	704 C / 1300 F
24436	760 C / 1400 F
24437	788 C / 1450 F
24438	816 C / 1500 F
24439	871 C / 1600 F
24440	927 C / 1700 F
24441	982 C / 1800 F
24442	1038 C / 1900 F

Tempilaq Thinner

24597	Thinner 55 ml
24598	Thinner 940 ml

Tempilaq Quart (940 ml)

24550	79 C / 175 F
24551	107 C / 225 F
24552	163 C / 325 F
24553	177 C / 350 F
24554	191 C / 375 F
24555	246 C / 475 F
24556	343 C / 650 F
24557	371 C / 700 F
24558	399 C / 750 F
24559	427 C / 800 F
24560	454 C / 850 F
24561	482 C / 900 F
24562	510 C / 950 F
24563	538 C / 1000 F
24564	566 C / 1050 F
24565	593 C / 1100 F
24566	621 C / 1150 F
24567	649 C / 1200 F
24568	677 C / 1250 F

Application | **Temperature below limit** | **Temperature over limit**



TEMPIL® TEMPERATURE SENSITIVE LABELS

TEMPERATURE MONITORING

Our temperature labels,Tempilabel® and Thermax®, are uniquely designed to deliver consistent and accurate temperature readings in a variety of applications and environments. Featuring an easy-to-use adhesive backing, our products can be affixed to any surface quickly.



Monitor temperatures attained during:

- Shipping and storage - product integrity may depend on maintaining shipping and storage temperatures
- Process – manufacturing and other processes may depend on reaching – or staying below – certain temperatures
- Product use – product warranty may depend on maintaining certain temperatures
- Laboratory testing – testing procedures may depend on reaching - or staying below- certain temperatures

Features & Benefits

- Temperature readings within ± 2 percent F° – you get consistent, accurate and reliable results
- Clear visible indication so decisions about temperature indications can be made quickly and easily
- Irreversible labels are a permanent record for inspection and quality control
- Wide range of labels available from 29°C to 290°C (84°F to 554°F)

Easy to use

Simply remove the adhesive backing, and press firmly onto a clean, dry surface. When the rated temperature is reached, for irreversible labels, the dot(s) in the middle will change and remain black, indicating that the desired temperature has been reached.

Application

Medical device shipping and storage
Aerospace components and control systems
Printed circuits, semicondutor cabinets, and other electronic devices
Wave soldering, baking, curing, sealing, and bonding
Batteries, appliances, machines, and motors
Automotive parts
Any other temperature sensitive materials

TEMPILABEL® SERIES 4

Tempilabel® Irreversible Temperature Indicating Labels. One label indicates 4 temperatures. Available in pack of 10 labels, or in pack of 500 labels.



Detail

Pack of 10

	°F	°C	°F	°C	°F	°C	°F	°C
26700	100	38	110	43	120	49	130	54
26701	130	54	140	60	150	66	160	71
26702	170	77	180	82	190	88	200	93
26703	190	88	200	93	210	99	220	104
26704	220	104	230	110	240	116	250	121
26705	330	166	340	171	350	177	360	182
26706	125	52	150	66	175	79	200	93
26707	100	38	150	66	200	93	250	121
26708	200	93	250	121	300	149	350	177

Roll of 500

	°F	°C	°F	°C	°F	°C	°F	°C
26750	100	38	110	43	120	49	130	54
26751	170	77	180	82	190	88	200	93
26752	200	93	250	121	300	149	350	177

TEMPILABEL® SERIES 21

Tempilabel® Irreversible Temperature Indicating Labels. One label indicates one unique temperature. Available in pack of 210 labels, or in rolls of 1000 labels.



Detail

Pack of 10

	°F	°C
26250	100	38
26251	110	43
26252	120	49
26254	130	54
26255	140	60
26256	160	71
26257	170	77
26258	180	82
26259	190	88
26260	200	93
26261	210	99
26262	220	104
26263	230	110
26264	240	116
26265	250	121

	°F	°C
26266	260	127
26267	270	132
26268	280	138
26269	290	143
26270	300	149
26271	400	204
26272	500	260

Roll of 500

	°F	°C
26275	100	38
26276	110	43
26277	120	49
26278	130	54
26279	140	60

	°F	°C
26280	160	71
26281	170	77
26282	180	82
26283	190	88
26284	200	93
26285	210	99
26286	220	104
26287	230	110
26288	250	121
26289	260	127
26290	270	132
26291	280	138
26292	290	143
29293	300	149
26294	400	204







LIQUID CRYSTAL

These labels have temperature indications that are reversible – indications can change as temperatures fluctuate. Available in pack of 10 labels.

Detail

Pack of 10

	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
26900	32	0	41	5	50	10	59	15	68	20	77	25	86	30
26901	86	30	95	35	104	40	113	45	122	50	131	55	140	60
26902	-22	-30	-13	-25	-4	-20	5	-15	14	-10	23	-5	32	0
26903	140	60	149	65	158	70	167	75	176	80	185	85	194	90
26904	194	90	203	95	212	100	221	105	230	110	239	115	248	120



THERMAX® CLOCK

Thermax® Clock Indicating Labels. One label indicates 5 temperatures in a round form. Available in pack of 10 labels.

Detail

Pack of 10

	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
26001	104	40	190	43	115	46	120	49	129	54
26002	140	60	149	65	160	71	171	77	180	82
26003	190	88	199	93	210	99	219	104	230	110
26004	241	116	250	121	261	127	270	132	280	138
26005	289	143	300	149	309	154	320	160	331	166
26006	340	171	351	177	360	182	370	188	379	193
26007	390	199	399	204	410	210	421	216	435	224
26008	450	232	466	241	480	249	489	254	500	260



THERMAX® 5

Thermax® 5 Irreversible temperature indicating Labels. One label indicates 5 temperatures in a rectangular form. Available in pack of 10 labels.

Detail

Pack of 10

	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
26517	99	37	104	40	109	42	111	44	115	46
26519	120	49	129	54	140	60	149	65	160	71
26521	171	77	180	82	190	88	199	93	210	99
26523	219	104	230	110	241	116	250	121	261	127
26525	270	132	280	138	289	143	300	149	309	154
26527	320	160	331	166	340	171	351	177	360	182
26529	370	188	379	193	390	199	399	204	410	210
26531	421	216	435	224	450	232	466	241	480	249
26533	480	249	489	254	500	260	536	280	554	290
26535	84	29	91	33	93	34	99	37	104	40

THERMAX® 6

Thermax® 6 Irreversible temperature indicating Labels. One label indicates 6 temperatures in a rectangular form. Available in pack of 10 labels.



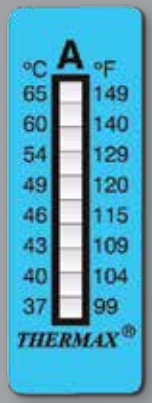
Detail

Pack of 10

	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
26601	84	29	91	33	93	34	99	37	104	40	108	42
26603	111	44	115	46	120	49	129	54	140	60	144	62
26605	149	65	160	71	171	77	180	82	190	88	199	93
26608	210	99	219	104	230	110	241	116	250	121	261	127
26610	270	132	280	138	289	143	300	149	309	154	320	160
26612	331	166	340	171	351	177	360	182	370	188	379	193
26614	390	199	399	204	410	210	421	216	435	224	450	232
26616	466	241	480	249	489	254	500	260	536	280	554	290

THERMAX® 8

Thermax® 8 Irreversible temperature indicating Labels. One label indicates 8 temperatures in a rectangular form. Available in pack of 10 labels.



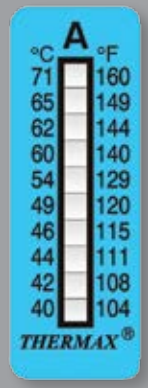
Detail

Pack of 10

	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
26801	99	37	104	40	109	43	115	46	120	49	129	54	140	60	149	65
26803	160	71	171	77	180	82	190	88	199	93	210	99	219	104	230	110
26805	241	116	250	121	261	127	270	132	280	138	289	143	300	149	309	154
26807	320	160	331	166	340	171	351	177	360	182	370	188	379	193	390	199

THERMAX® 10

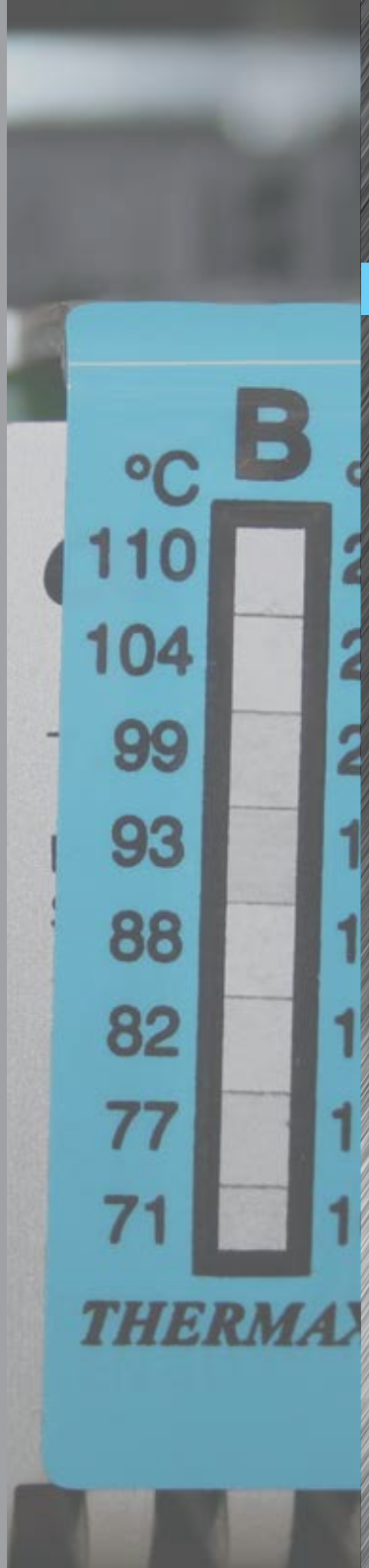
Thermax® 10 Irreversible temperature indicating Labels. One label indicates 10 temperatures in a rectangular form. Available in pack of 10 labels.



Detail

Pack of 10

	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
26100	104	40	108	42	111	44	115	46	120	49	129	54	140	60	144	62	149	65	160	71		
26103	171	77	180	82	190	88	199	93	210	99	219	104	230	110	241	16	250	121	261	127		
26105	270	132	280	138	289	143	300	149	309	154	320	160	331	166	340	171	351	177	360	182		
26107	370	188	379	193	390	199	399	204	410	210	421	216	435	224	450	232	466	241	480	249		



HIGH TEMPERATURE COATING

WELDABLE PRIMER AND HEAT-ABSORBING COATING

TEMPIL® has developped specific products where heat causes troubles, from protecting NASA's Space Shuttle Orbiter to solar panels. TEMPIL® has also developped special weldable Primer to save time in the welding processes.



ANTI-HEAT®

Anti-Heat®, an exceptional heat-absorbing compound, is specially formulated to eliminate heat damage and discoloration, which often occurs on light gauge metals during fabrication.

Features & Benefits

- Prevents heat related damages such as buckling, cracking, warping or other metal distortions from occurring.
- Non-toxic
- Harmless to the skin
- Asbestos-free and odorless
- Adheres to horizontal, vertical and overhead surface

Application

Welding
Metal fabrication and construction
Ship building and repair

Details

24001 Anti-Heat 1 Gallon 3,78L
24003 Anti-Heat tube 355 ml (12 oz.)

BLOXIDE®

Bloxide® is a versatile, rust-preventive, weldable primer with a unique formula that can be applied to a wide range of metals, preventing the formation of rust and corrosion during extended periods of storage.

Features & Benefits

- Eliminates the need to clean metal surfaces before welding
- Weldable primer improving the weld quality after application, resulting in X-Ray quality welds
- Ideal for extended periods of outside steel storage
- Ability to strike welding arc without removal
- Temperature resistant to 427°C (800°F)
- Aluminized finish
- Can be sprayed, brushed or parts can be dipped into it

Application

Marine and offshore metal fabrication
Almost all steels
Primer for paints and coatings

Details

24100 Bloxide 3,78L (1 Gallon)
24104 Bloxide 350 ml Aerosol

PYROMARK®

Pyromark® is a silicone-based coating that is specifically formulated for protecting, decorating or color identifying metal surfaces that will be subjected to high temperatures.

Features & Benefits

- Long-lasting protection against oxidation and corrosion
- Excellent coverage characteristics with no blistering, chipping, peeling or cracking at rated temperatures.
- Specifically designed for the space program and solar applications
- Solar absorption rate of 0.95 makes it an almost perfect black box absorber
- Improves heat transfer in infrared heating applications due to its high-emission properties

Application

Solar Absorbers
Infrared Heaters/Boilers/Furnaces
Ovens/Fireplace Accessories
Mufflers/boat and auto engines
Radiators/Stoves

Details

25002 Pyromark 1200 Flat Black 3,78L
25010 Pyromark 2500 Flat Black 3,78L
25011 Pyromark 1200 Thinner 3,78L
25012 Pyromark 2500 Thinner 3,78L



LA-CO®



MRO AND PVF CHEMICALS

Our LA-CO® brand of high quality, high-performance MRO, plumbing and HVAC chemicals is a globally trusted partner for professional contractors and maintenance departments. We are committed to serving several industries including plumbing, HVAC, pipefitting, maintenance operations, repair services and original equipment manufacturing ....

Slic-tite® Paste With PTFE Thread Sealant

Specially formulated with PTFE for added sealing power, Slic-tite® is the premium thread sealant paste. It has been successfully used for decades to seal water, air, steam, natural gas, and more. It removes easily from skin and clothing. Slic-tite thread sealant works in extremely high pressure systems, and it comes with several approvals so that the job is completed to code.

Features & Benefits

- Contains PTFE for greater sealing power
- Pressures: 204 BAR (3,000 PSI) for gas; 680 BAR (10,000 PSI) for liquid
- Sealing temperature: -46°C to 260°C (-50°F to 500°F)
- Safe, non-toxic, non-drying
- Can be used on variety of metals and plastic, so you only need one thread sealant for many types of jobs
- Washes off hands and clothes easily; less time spent cleaning up
- Do not use on oxygen service; use Oxytite Paste or Slic-tite PTFE Tape

Approvals/Certifications

USDA approved for use in federally inspected meat and poultry plants

UL

CSA

NSF

UPC

FBC™ system compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® pipe and fittings. FBC™, FlowGuard Gold®, BlazeMaster® and Corzan® are licensed trademarks of The Lubrizol Corporation.

Surface Uses

Metal
PVC
CPVC
ABS

Details

Brush In Cap bottle



42009	1/4 pt. BIC
42019	1/2 pt. BIC

BIC = Brush in Cap



LEAK-TITE® Blue Thread Sealant

This blue sealant is excellent for sealing water, air, steam, natural gas, refrigerants, gasoline and ammonia. LEAK-TITE® Blue is also ideal for use on production lines and fabrication shops.

Features & Benefits

- Pressures: 102 BAR (1,500 PSI) for gas; 340 BAR (5,000 PSI) for liquid
- Sealing temperature: -46°C to 260°C (-50°F to 500°F)
- Contains PTFE particles for greater sealing power
- Will not harden or dry out over time, remains flexible for easy dissassembly
- Safe, non-toxic, contains no solvents
- Washes off hands and clothes easily; less time spent cleaning up
- Do not use on oxygen service; use Oxytite Paste or Slic-tite PTFE Tape

Approvals/Certifications

NSF

FBC system compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold, BlazeMaster and Corzan pipe and fittings. FBC, FlowGuard Gold, BlazeMaster and Corzan are licensed trademarks of The Lubrizol Corporation.

Surface Uses

Metal
PVC
CPVC
ABS

Details

Brush In Cap bottle



46029	1/4 pt. BIC

BIC = Brush in Cap





Slic-tite® Stik

Features & Benefits

- Contains PTFE for greater sealing power
- Pressures: 34 BAR (500 PSI) for gas; 340 BAR (5,000 PSI) for liquid
- Sealing temperature: -46°C to 177°C (-50°F to 350°F)
- High-performance thread compound in handy stick form
- Safe, non-toxic, non-drying
- Washes off hands and clothes easily; less time spent cleaning up
- Do not use on oxygen service; use Oxytite Paste or Slic-tite PTFE Tape

Approvals/Certifications

UPC
NFS

Surface Uses

Metal
PVC

Details



41600 ● Stik



Slic-tite® PTFE Thread Tape

Features & Benefits

- Pressure: to 136 BAR (2,000 PSI)
- Sealing temperature: -268°C to 288°C (-450°F to 550°F)
- 4 mils thick and made with PTFE for greater sealing power
- Non-toxic

Approvals/Certifications

UPC
Meets Mil. Spec. T-27730A

Surface Uses

Metal
Stainless steel
PVC
CPVC
ABS

Details



44081 ● 0,64 x 1524 cm (1/4″ x 600″)

44083 ● 1,27 x 1524 cm (1/2″ x 600″)



Regular Flux

Features & Benefits

- Water soluble paste
- Meets industry standard ASTM B813 and contains no zinc chloride, so your job meets code
- Non-acid, non-toxic, and lead-free
- Cleans pipe upon application
- All-weather formula

Approvals/Certifications

ASTM B813
NSF 61
UPC
Mil. Spec. Mil-F-4995 Type II

Surface Uses

All lead-free and common soft solders
Copper
Brass

Details



22101 59 ml (2 oz.)
22104 115 ml (4 oz.)



22107 450g (1lb.)



Cool Gel®

Features & Benefits

- Protects components and materials during soldering
- Protects painted and finished surfaces from discoloration due to torch heat
- Clear, non-staining gelled formula sticks to surfaces without dripping or running off
- Safe, non-toxic, harmless to skin and odorless
- Reduces expensive danger of fire to surrounding surfaces

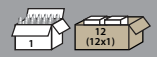
Surface Uses

Metal
Plastics
Valves
Insulation
Drywall and studs
Wood

Details



11513 470 ml (1 pt.)



11509 940 ml (1qt.)



EZ BREAK® Copper Grade Anti-seize

Equipment vulnerable to galling and rust needs protection. The best way to protect your equipment from seizing and corrosion is to use EZ Break® Anti-Seize. Simply apply EZ Break® to nuts, bolts, and other metal parts, and your equipment will be rust free and easy to maintain.

Features & Benefits
- Working temperature: to 982°C (1800° F)
- Lubricates and protects nuts and bolts, making disassembly easy, even after years of service
- Resists galling, rust and corrosion so your metal parts won't "freeze up"
- Copper material is easy to use in most general applications

Approvals/Certifications
Meets Mil-PRF-907F
Authorized by USDA for use in federally inspected meat and poultry plants

Surface Uses
Nuts
Bolts
Valves
Flanges
Splines

Details

08907 470 ml (16 oz.) BIC

08930 ● Stik

BIC = Brush in Cap



EZ BREAK® Nickel Grade Anti-seize

Equipment vulnerable to galling and rust needs protection. The best way to protect your equipment from seizing and corrosion is to use EZ Break® Anti-Seize. Simply apply EZ Break® to nuts, bolts, and other metal parts, and your equipment will be rust free and easy to maintain.

Features & Benefits
- Working temperature: to 1427°C (2600° F)
- Lubricates and protects nuts and bolts, making disassembly easy, even after years of service
- Resists galling, rust and corrosion so your metal parts won't "freeze up"
- Nickel material is excellent for ultra-high temperature applications

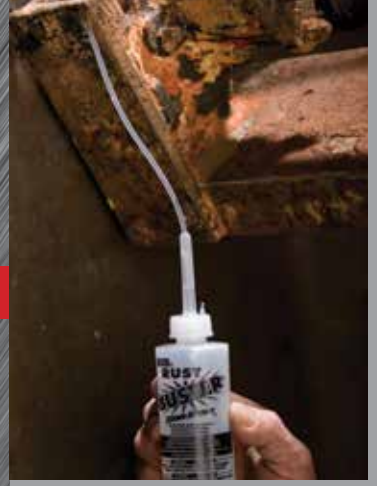
Surface Uses
Nuts
Bolts
Valves
Flanges
Splines

Details

08972 470 ml (16 oz.) BIC

BIC = Brush in Cap





Rust Buster®

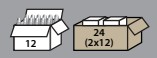
Features & Benefits

- Special telescoping spout lubricates hard-to-reach areas up to 17,78 cm (7″) away
- Quickly loosens rusted bolts so equipment can be maintained faster and easier
- Safe for skin, clothes, metals and friction-type surfaces - contains no acids, alkali or other harmful ingredients

Surface Uses

Equipment
Tools
Cables
Ignition systems
Threaded parts
All rotating or sliding metal surfaces

Details



79706 115 ml (4 fl. oz.)



Zoom Spout® Oiler

Features & Benefits

- Special telescoping spout lubricates hard-to-reach areas up to 17,78 cm (7″) away
- Premium grade, turbine grade oil is excellent for all general purpose lubricating

Surface Uses

Rotating and reciprocating equipment
Bearings
Motors
Slides

Details



79704 115 ml (4 fl. oz.)



EPOXY-STIK®

Features & Benefits

- Withstands temperatures up to 121°C (250°F)
- Hardens in 5-10 minutes and cures fully in 24 hours, so your system will be running again in little time
- Can be applied under water for submerged pipe leaks
- After one hour can be drilled, tapped, filed, sawed, sanded and painted - your job can be easily finished in little time

Approvals/Certifications

NSF

Surface Uses

Water systems
Potable water systems

Details



Dozen Display Box
19571 Stik



LIFTER® WIPES

Features & Benefits

- Disposable and easy to use ultimate all-purpose wipes
- Smooth side for gentle cleaning, rough side for hard-to-clean areas
- Tear-resistant for heavy duty cleaning jobs
- No residue left behind and no drying necessary - simply wipe up the mess and throw the towel away
- Removes heavy grease, oils, tar, asphalt, inks, wax, lubricants, adhesives, and many other hard-to-remove materials

For use on :

Grease
Oils
Tar
Asphalt
Inks
Wax
Lubricants
Adhesives

Details



72405 Bulk of 70 wipes



WWW.MARKAL.COM : FIND A MARKER Selection Tool Guide

As a leader in industrial marking solutions, Markal® has a number of products available to help our distributors maximize their opportunities to service customers. Our innovative "FIND A MARKER" Selection Tool searches through the entire Markal product line to provide your customers with the ideal marker for their specific job.

Benefits of the "FIND A MARKER" Button:

- **Easily Accessible-** visit markal.com and click the "FIND A MARKER" button on the homepage to get Markal support at your fingertips.
- **Expert Marker Selection-** Available 24 hours a day, 7 days a week, your customers can access the industrial-marker experts any time their job requires.
- **Quick and Easy Navigation-** with just a few clicks you can find the perfect marker required for the job, giving your customers' the exact tool they need for superior performance.
- **Mobile Friendly-** the Markal website and selection tool can be easily opened on any smartphone or tablet - perfect for helping customers' at your front desk or on the go.

How the "FIND A MARKER" Button Works:

1



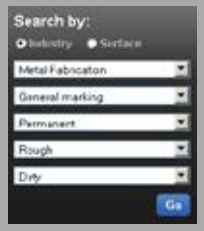
1. **From the markal.com homepage, click the "FIND A MARKER" button.**

2



2. **Search for your marker by "industry" or "surface" and answer a few simple questions.**

3



3. **Click "GO" and our selection tool will narrow the options, showing you only markers specifically engineered to meet the needs of the tough application.**

4



4. **Click on any of the search results for more information, including:**

- **Product Details**
- **Features and Benefits**
- **Literature and MSDS**

From there, you can confidently choose any of the markers shown.

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