HIGH PERFORMANCE INDUSTRIAL MARKERS
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.

Our Markal® brand is the global leader in high-performance, hand-held industrial marking products. From our manufacturing locations in Elk Grove Village, IL, USA and Blyes, France, we produce and sell high-performance industrial markers for the following industries: metal production, shipbuilding, automotive assembly, welding and metal fabrication, building construction, lumber/timber processing, and many more.

For over 78 years, we have been proud to support the hardworking contractor that builds 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 world in over 60 countries. This broad network of long-term business partners provides our customers the highest level of service.

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

For over 78 years, Markal has been proudly manufacturing and supplying the industry's largest line of industrial grade markers. Products listed with this symbol are made in the USA 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.

Liquid Paint Markers


Ink Markers

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69.
LIQUID PAINT MARKERS

VERSATILE AND RELIABLE

For over 78 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.

Markal® has a long history of providing products designed to meet the ever-changing needs of industry. Our commitment to developing new and innovative products has enabled Markal® to keep pace with the increasing demands 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®

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 valve-free paint reduces user health risks and is available in 18 bold and fluorescent colors for accurate mark identification.

Features & Benefits

- Fast-drying permanent paint for immediate handling, reduces work interruptions
- Valve-free paint reduces user health risks and is available in 18 bold and fluorescent colors for accurate mark identification
- Easier to use and reduces breakage
- Valve-free paint is resistant to wear and weather
- Markal valve-free paints reduce breakage and store easily
- 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

Specifications

Industry Uses

- Automotive
- Aerospace
- Marine
- Food processing
- Medical
- Construction
- Metal fabrication
- Industrial manufacturing
- Shipping
- Textile
- Construction
- Metal fabrication
- Industrial manufacturing
- Shipping
- Textile

Surface Uses

- Steel and iron
- Plastic
- Pipe and tubes
- Rubber and tires
- Glass
- Plastic
- Steel and iron
- Surface Uses
- Steel and iron
- Plastic
- Pipe and tubes
- Rubber and tires
- Glass
- Plastic
- Steel and iron

Details

- The Markal® Valve Action® marker is a fast-drying liquid paint marker that provides long-lasting, wear- and weather-resistant marks that are safe for almost any surface.
- Valve Action® is available in 18 bold and fluorescent colors for accurate mark identification.
- The valve-free paint reduces user health risks and is resistant to wear and weather.
- Valve Action® is easier to use and reduces breakage.
- Valve-free paints are resistant to wear and weather.

Markal valve-free paints reduce breakage and store easily.

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

markal.com
LIQUID PAINT MARKERS

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, theft prevention, tamper-proofing, and anti-counterfeiting processes. The permanent, invisible liquid paint dries quickly to provide long-lasting, weather- and wear-resistant marks.

**Features & Benefits**
- Water-based formula spreads and dries quickly through capillary action to yield permanent, permanent marks

**Industry Uses**
- Marking General
- Construction
- Aviation and aerospace

**Surface Uses**
- Steel and iron
- Aluminum
- Pipe and tubes
- plastics
- Rubber

**Mark Size**
- 1/8" (3mm)

**Details**
- 48 Case

**Valve Action® Ultra Violet**

**Features & Benefits**
- Same valve mechanism as Valve Action
- Certified Valve Action (include valve action)
- Individual lot analysis and certification available at valve action
- Individually packed for secure, accurate traceability
- Valve assembly includes a pressure-dissipating paint marker tip when used with the valve action
- Marking range: 10°F to 150°F (-12°F to 66°C)

**Industry Uses**
- Marking General
- Construction
- Aviation and aerospace

**Surface Uses**
- Steel and iron
- Aluminum
- Pipe and tubes
- Plastics
- Rubber

**Mark Size**
- 1/8" (3mm)

**Details**
- 48 Case

**Carded 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.

**Features & Benefits**
- Same valve mechanism as Valve Action
- Certified Valve Action (include valve action)
- Individual lot analysis and certification available at valve action
- Individually packed for secure, accurate traceability
- Valve assembly includes a pressure-dissipating paint marker tip when used with the valve action
- Marking range: 10°F to 150°F (-12°F to 66°C)

**Industry Uses**
- Marking General
- Construction
- Aviation and aerospace

**Surface Uses**
- Steel and iron
- Aluminum
- Pipe and tubes
- Plastics
- Rubber

**Mark Size**
- 1/8" (3mm)

**Details**
- 48 Case

**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 leaves a bold, permanent mark.

**Features & Benefits**
- High performance permanent, UV-visible and durable
- Marking range: 10°F to 150°F (-12°F to 66°C)
- Easy-to-grasp cap-on-nose allows for convenient pocket storage

**Industry Uses**
- Marking General
- Construction
- Aviation and aerospace

**Surface Uses**
- Steel and iron
- Aluminum
- Pipe and tubes
- Plastics
- Rubber

**Mark Size**
- 1/8" (3mm)

**Details**
- 48 Case

**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**
- High performance permanent, UV-visible and durable
- Marking range: 10°F to 150°F (-12°F to 66°C)
- Fast drying formula leaves a bright, permanent mark

**Industry Uses**
- Marking General
- Construction
- Aviation and aerospace

**Surface Uses**
- Steel and iron
- Aluminum
- Pipe and tubes
- Plastics
- Rubber

**Mark Size**
- 1/8" (3mm)

**Details**
- 48 Case

**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.

**Features & Benefits**
- Same valve mechanism as Valve Action
- Certified Valve Action (include valve action)
- Individual lot analysis and certification available at valve action
- Individually packed for secure, accurate traceability
- Valve assembly includes a pressure-dissipating paint marker tip when used with the valve action
- Marking range: 10°F to 150°F (-12°F to 66°C)

**Industry Uses**
- Marking General
- Construction
- Aviation and aerospace

**Surface Uses**
- Steel and iron
- Aluminum
- Pipe and tubes
- Plastics
- Rubber

**Mark Size**
- 1/8" (3mm)

**Details**
- 48 Case

**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, theft prevention, tamper-proofing, and anti-counterfeiting processes. The permanent, invisible liquid paint dries quickly to provide long-lasting, weather- and wear-resistant marks.

**Features & Benefits**
- Same valve mechanism as Valve Action
- Certified Valve Action (include valve action)
- Individual lot analysis and certification available at valve action
- Individually packed for secure, accurate traceability
- Valve assembly includes a pressure-dissipating paint marker tip when used with the valve action
- Marking range: 10°F to 150°F (-12°F to 66°C)

**Industry Uses**
- Marking General
- Construction
- Aviation and aerospace

**Surface Uses**
- Steel and iron
- Aluminum
- Pipe and tubes
- Plastics
- Rubber

**Mark Size**
- 1/8" (3mm)

**Details**
- 48 Case

**Carded Valve Action**

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- Marking range: 10°F to 150°F (-12°F to 66°C)

**Industry Uses**
- Marking General
- Construction
- Aviation and aerospace

**Surface Uses**
- Steel and iron
- Aluminum
- Pipe and tubes
- Plastics
- Rubber

**Mark Size**
- 1/8" (3mm)

**Details**
- 48 Case

**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 leaves a bold, permanent mark.

**Features & Benefits**
- High performance permanent, UV-visible and durable
- Marking range: 10°F to 150°F (-12°F to 66°C)
- Easy-to-grasp cap-on-nose allows for convenient pocket storage

**Industry Uses**
- Marking General
- Construction
- Aviation and aerospace

**Surface Uses**
- Steel and iron
- Aluminum
- Pipe and tubes
- Plastics
- Rubber

**Mark Size**
- 1/8" (3mm)

**Details**
- 48 Case

**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**
- High performance permanent, UV-visible and durable
- Marking range: 10°F to 150°F (-12°F to 66°C)
- Fast drying formula leaves a bright, permanent mark

**Industry Uses**
- Marking General
- Construction
- Aviation and aerospace

**Surface Uses**
- Steel and iron
- Aluminum
- Pipe and tubes
- Plastics
- Rubber

**Mark Size**
- 1/8" (3mm)

**Details**
- 48 Case
LIQUID PAINT MARKERS

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

PRO-WASH®

- **Features & Benefits**
  - Durable, thin line provides high visibility and easy identification.
  - Available in a wide variety of sizes, from 1/16" to 1/8" (1.5mm to 3mm).
  - Suitable for use on non-porous materials like glass, plastic, metal, and paper.

PRO-MAX®

- **Features & Benefits**
  - Large, extra-large tip provides high visibility and easy identification.
  - Available in a wide variety of sizes, from 1/16" to 1/8" (1.5mm to 3mm).
  - Suitable for use on non-porous materials like glass, plastic, metal, and paper.

PRO-LINE® XT

- **Features & Benefits**
  - Durable, thin line provides high visibility and easy identification.
  - Available in a wide variety of sizes, from 1/16" to 1/8" (1.5mm to 3mm).
  - Suitable for use on non-porous materials like glass, plastic, metal, and paper.

PRO-LINE® Fine and Micro

- **Features & Benefits**
  - Durable, thin line provides high visibility and easy identification.
  - Available in a wide variety of sizes, from 1/16" to 1/8" (1.5mm to 3mm).
  - Suitable for use on non-porous materials like glass, plastic, metal, and paper.
LIQUID PAINT MARKERS

Marker Merchandisers

Perfect for showroom counters or on the shop floor, our most popular markers are available in additional unique packaging options.

Details 48 Case
96687  Markal® Action® Tips
97023  PRO-WASH®/PRO-LINE® Tips
96008  PRO-LINE® WP Tips
96007  DURA-MARK® Tips

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. Its high adhesion on oily and wet surfaces, xylene-free paint reduces user health risks.

Details 48 Case
56622  White*
56631  Black
56634  Red
56635  Blue
56638  Green

Features & Benefits
- Durable metal-ball tip resists user and dropping for long-marking life on rough surfaces.
- Non-drip paint formula allows for easy, vertical marking.
- Industriat paint withstands harsh environments and weather conditions.

Industry Uses
- Industrial Manufacturing
- Automotive and other transportation
- Automation assembly
- Metal fabrication
- Construction
- Welding
- Shipping supply
- Textile
- Aviation and aerospace

Surface Uses
- Steel and iron
- Concrete, stone
- Masonry
- Plastic
- Rubber and tires
- Cloth, fabric (textiles)

Features & Benefits
- Plastic cap keeps tip clean between jobs.
- Max. temp. range: (−50°F to 150°F)
- Made in EU

Details 1 Case
1/8" (3mm)
84720  White*
84721  Yellow
84722  Red
84723  Orange
84724  Blue
84725  Green

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.

Details 48 Case
56652  White*
56653  Yellow
56654  Red
56655  Black
56656  Blue
56657  Green

Features & Benefits
- Durable metal-ball tip resists user and dropping for long-marking life on rough surfaces.
- Non-drip paint formula allows for easy, vertical marking.
- Industrial paint withstands harsh environments and weather conditions.

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

Surface Uses
- Steel and iron
- Concrete, stone
- Masonry
- Plastic
- Rubber and tires
- Cloth, fabric (textiles)

Features & Benefits
- Plastic cap keeps tip clean between jobs.
- Max. temp. range: (−50°F to 150°F)
- Made in EU

Details 48 Case
1/8" (3mm)
96652  White*
96653  Yellow
96654  Red
96655  Black
96656  Blue
96657  Green

Replacement Tips

Replacement tips will extend the life of the marker by maximizing the paint or ink used when marking on very rough, rusty, or dirty surfaces.

Details 48 Case
30951  Clip Strip Valve Action®
96800  White/1 Case 24 Markers
96801  Yellow/1 Case 24 Markers

Cylinder Display Valve Action
96080  Assorted 10 ea.
Black, White and Yellow
1 Case 30 Markers

Box Display Valve Action
96810  White/1 Case 48 Markers
96811  Yellow/1 Case 48 Markers
96819  Assorted 8 ea.
White and Yellow - 4 ea.
Black and Red - 4 ea.
1 Case 24 Markers

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

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.

Immediate Mark and Dry
Markal Inc.
1224 S. 33rd Street
Milwaukee, WI 53214
Tel: 414.343.4131
Fax: 414.343.4650

markal.com
INK MARKERS

DURA-INK® 60 Medium Bullet Tip

Mark size: 1/8” (3mm) Mark size: 1/8” (3mm)

DURA-INK® 80 Valve-Actuated Tapered Tip

Mark size: 3/32” (5mm) to 5/32” (7mm)

DURA-INK® 200 Broad Chisel Tip

Mark size: 3/32” (5mm) to 5/32” (7mm)

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 for temporary-marking applications
- Removable, non-permanent marks with dry rag, brush, 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 tip cap and plastic barrel will resist unnecessary wear and breakdown

Industry Uses

- Security and theft prevention
- MRO
- Animal herd marking
- Construction

Surface Uses

- Metal
- Plastic
- Glass
- Aluminum

DURA-INK® 200

Industry Uses

- Quality control
- Automotive
- Automotive aftermarket
- Steel mills and warehouses

Surface Uses

- Metal
- Plastic
- Glass
- Lumber/timber
- Cart, Autos (metallic)

DURA-INK® 80

Industry Uses

- Quality control
- Automotive
- Automotive aftermarket
- Steel mills and warehouses

Surface Uses

- Metal
- Plastic
- Glass
- Lumber/timber
- Cart, Autos (metallic)

DURA-INK® 60

Industry Uses

- Metal fabrication
- Construction
- Automotive and other transportation
- Shipping, mailing, and storage
- Aviation and aerospace

Surface Uses

- Metal
- Plastic
- Glass
- Lumber/timber
- Cart, Autos (metallic)

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

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 polymer/plastic plastic surfaces and tags for long-lasting, highly-visible marks
- Fade- and weather-resistant ink for extended outdoor exposure
- Heavy-duty aluminum barrel for tough-wear conditions
- Convenient tip cap for easy and secure storage

Industry Uses

- Security and theft prevention
- MRO
- Animal herd marking
- Construction

Surface Uses

- Polyurethane plastic
- Animal tag marking
- Rubber

DURA-INK® 80 Valve-Actuated

Industry Uses

- Quality control
- Automotive
- Automotive aftermarket
- Steel mills and warehouses

Surface Uses

- Metal
- Plastic
- Glass
- Aluminum

DURA-INK® 60 Medium Bullet Tip

Industry Uses

- Metal fabrication
- Construction
- Automotive and other transportation
- Shipping, mailing, and storage
- Aviation and aerospace

Surface Uses

- Metal
- Plastic
- Glass
- Lumber/timber
- Cart, Autos (metallic)
**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 common 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.

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**Features & Benefits**

* Rapid dry, fast-marking, highly visible marks.
* Superior marking on rough, rusty, or dirty surfaces.
* Solid paint marker action minimizes spewage, dripping or dripping, or dripping, or dripping.
* Weather- and UV-resistant for long-lasting marks.
* Marking range: 50°F to 150°F (+10°C to 66°C).

<table>
<thead>
<tr>
<th>Surface Uses</th>
<th>B® Paintstik®</th>
<th>B-E® Paintstik®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel and Iron</td>
<td>Black</td>
<td>Black</td>
</tr>
<tr>
<td>Piping and Tubing</td>
<td>Blue</td>
<td>Blue</td>
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<tr>
<td>Rubber and Tires</td>
<td>Red</td>
<td>Red</td>
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<tr>
<td>Brick, Stone</td>
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<td>Black</td>
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<tr>
<td>Concrete, Stone</td>
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<td>Black</td>
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<tr>
<td>Glass</td>
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<tr>
<td>Plastic</td>
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<tr>
<td>Oils</td>
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<tr>
<td>Rough, Rust</td>
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</tr>
<tr>
<td>Clean, Dry</td>
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<tr>
<td>Wet</td>
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<td>Annealing, Heat Treat</td>
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<td>Non-Porous Surfaces</td>
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</tr>
<tr>
<td>Secondary Selection</td>
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<td>Black</td>
</tr>
</tbody>
</table>

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**B® Paintstik®**

As Markal’s most versatile and economical 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, wet, dry, or cold surfaces and is weather- and UV-resistant. This Paintstik works on rough, rusty, smooth, or dirty surfaces.

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**B-E® Paintstik®**

Created for very rough surfaces such as forgings, castings, concrete and lumber, the B-E Paintstik marks works on rough, rusty, smooth, or dirty surfaces. This Paintstik operates on rough, rusty, smooth, or dirty surfaces.

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**Surface Uses**

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<td>Rough</td>
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</tr>
<tr>
<td>Glass, Ceramic</td>
<td>Black</td>
</tr>
<tr>
<td>Plastics</td>
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<tr>
<td>Annealing, Heat Treat</td>
<td>Black</td>
</tr>
<tr>
<td>Rubber</td>
<td>Black</td>
</tr>
<tr>
<td>Non-Porous Surfaces</td>
<td>Black</td>
</tr>
<tr>
<td>Secondary Selection</td>
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</tbody>
</table>

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**Markal.com**

Visit markal.com for the most comprehensive marking information.
SOLID PAINT MARKERS

**B-L® Paintstik®**
- **Features & Benefits:**
  - Water-based, non-toxic, or snack-based paint or pencil
  - Use for identification, coding, layout, or assembly operations
  - Durable weather and UV-resistant
  - To prevent bleeding through the finished coat of paint, use the same finish with water-based paint
  - Non-toxic, durable, washable

**BL-W® Paintstik**
- **Features & Benefits:**
  - Non-toxic, water-based, or snack-based paint or pencil
  - Use for identification, coding, layout, or assembly operations
  - Durable weather and UV-resistant
  - To prevent bleeding through the finished coat of paint, use the same finish with water-based paint
  - Non-toxic, washable

**C® Paintstik**
- **Features & Benefits:**
  - Provides a durable, versatile surface for marking or identification
  - Non-toxic, water-based, or snack-based paint or pencil
  - Use for identification, coding, layout, or assembly operations
  - Durable weather and UV-resistant
  - To prevent bleeding through the finished coat of paint, use the same finish with water-based paint
  - Non-toxic, washable

**E® Paintstik**
- **Features & Benefits:**
  - Non-toxic, water-based, or snack-based paint or pencil
  - Use for identification, coding, layout, or assembly operations
  - Durable weather and UV-resistant
  - To prevent bleeding through the finished coat of paint, use the same finish with water-based paint
  - Non-toxic, washable

**FAST DRY® Paintstik**
- **Features & Benefits:**
  - Non-toxic, water-based, or snack-based paint or pencil
  - Use for identification, coding, layout, or assembly operations
  - Durable weather and UV-resistant
  - To prevent bleeding through the finished coat of paint, use the same finish with water-based paint
  - Non-toxic, washable

**M® and M-10® Paintstik**
- **Features & Benefits:**
  - Non-toxic, water-based, or snack-based paint or pencil
  - Use for identification, coding, layout, or assembly operations
  - Durable weather and UV-resistant
  - To prevent bleeding through the finished coat of paint, use the same finish with water-based paint
  - Non-toxic, washable

**N® Paintstik**
- **Features & Benefits:**
  - Non-toxic, water-based, or snack-based paint or pencil
  - Use for identification, coding, layout, or assembly operations
  - Durable weather and UV-resistant
  - To prevent bleeding through the finished coat of paint, use the same finish with water-based paint
  - Non-toxic, washable

**Industrial Uses**
- Steel mills and warehouses
- Metal fabrication
- Shop building and repair

**Surface Uses**
- Steel and iron
- Pipes and hoses
- Rubber and tires
- Lumber/hardwood
- Plastic

**Surface Size**
- Concrete, stone
- Wood
- Aluminum

**Details**
- **B-L® Paintstik®**
  - **Blades:**
    - 144 Case (24/3"
    - 60755 Blue

- **BL-W® Paintstik**
  - **Blades:**
    - 144 Case (24/3"
    - 60755 Blue

- **C® Paintstik**
  - **Blades:**
    - 144 Case (24/3"
    - 60755 Blue

- **E® Paintstik**
  - **Blades:**
    - 144 Case (24/3"
    - 60755 Blue

- **FAST DRY® Paintstik**
  - **Blades:**
    - 144 Case (24/3"
    - 60756 Blue

- **M® and M-10® Paintstik**
  - **Blades:**
    - 144 Case (24/3"
    - 60756 Blue

- **N® Paintstik**
  - **Blades:**
    - 144 Case (24/3"
    - 60756 Blue

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

**Features & Benefits:**
- Marks will not run or spread on oily surfaces for easy clean-up.
- Paint marks are resistant to oil-polluted hands and steel tools.
- Machine erasable.
- Steel rolls in oil and grease.
- Multiple colors available.

**Industry Uses:**
- Oil refineries and production
- Steel mills and warehouses
- Metal fabrication

**Surface Uses:**
- Metal fabrication
- Oil refineries and production

**Surface Benefits:**
- Dripping paint
- Ghost after removal
- Finish No. 30.1.1, Type I

**VOC:**
- Toluene
- Acetone
- Solvent

**Availability:**
- 144 Case
- 144 Case

**Colors:**
- Black
- Red
- Yellow
- White

**Mark Size:**
- 3/8" (9.5mm)
- 1/2" (17mm)

**Technical Data:**
- Marking range: -50°F to 250°F (-46°C to 121°C)
- 11/16" (17mm) mark size

**Markal®**

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**Lacquer-Stik®**

**Features & Benefits:**
- Bright, smudge-resistant colors are easily seen in low light areas and are ideal for tire marking.
- For temporary marking on tires, the TYRE MARQUE solid paint crayon marks smoothly on many surfaces.
- Ideal for temporary marking of glass and other non-porous surfaces, Zephyr solid paint crayon is wear-resistant and can be wiped off with water.
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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 handles, clothing, and tool-boxes clean with the industry’s largest twist-up solid paint marker.

**Features & Benefits**
- Fast-drying, smooth paint marks dry in 3 to 5 minutes
- Elongated, durable plastic tip is wipeable on other brands, rips marks for the money
- Marks on virtually any surface; wet, smooth, rough or hot
- Attached self-holding cap keeps the marker clean and free between uses

**Industry Uses**
- Metal fabrication
- Automotive aftermarket
- Construction
- Industrial process piping
- Shipping supply

**Mark Size** 11/16" (17.78 mm)
**Details** 72 Case

**Marker not included.**

Quik Stik Mini

The Quik Stik Mini is a compact solid paint marker in a convenient twist-up, plastic holder that is ideal for fine (2 mm) marking on smooth or rough surfaces. This smaller version of the Markal® Quik Stik shows 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.

**Features & Benefits**
- Fast-drying, smooth paint marks dry in 3 to 5 minutes
- Compact plastic holder will clip on a belt or tool belt
- Marks on virtually any surface; wet, smooth, rough, or hot

**Industry Uses**
- Metal fabrication
- Automotive aftermarket
- Construction
- Industrial process piping
- Shipping supply

**Mark Size** 11/32" (0.9 mm)
**Details** 48 Case

**Marker not included.**

---

**101 Holder**

**Features & Benefits**
- Heavy-duty metal holder reduces hand fatigue and protects Markal® solid paint markers in rough working conditions.
- Easy-to-advance, adjustable holder maximizes marker life.
- Designed for use with the following Markal standard solid paint markers: B®, B-E®, B-L®, C®, D®, E®, M®, M-10®, N®, 0-10®, P®, Zephyr®, FAST-DRY®, and WS-3/8®
- For wide distance marking, 24" (0.6 m) and 36" (0.9 m) extensions are available for special order

**Industry Uses**
- Steel mills and warehouses
- Metal fabrication and construction
- Pipe building and repair
- Lumber/finish
- Tire repair and re-treading
- Surface Uses
  - Rubber and tires
  - Automotive, steel and iron
  - Concrete and stone
  - Structural steel
  - Pipes and tubes

**Marker not included.**

**102 Holder**

**Features & Benefits**
- Durable metal holder promotes long work-life for all standard 11/32" (0.9 mm) size Markal solid paint markers.
- Adjustable mechanism easily advances paint marker

**Industry Uses**
- Metal fabrication
- Automotive aftermarket
- Construction
- Industrial process piping
- Shipping supply

**Mark Size** 11/32" (0.9 mm)
**Details** 12 Case

**Marker not included.**

**107 Holder**

**Features & Benefits**
- Dependable holder protects fine size Markal® for long work-life
- Easy-to-use, push-button design reduces work downtime
- For wide distance marking, 24" (0.6 m) and 36" (0.9 m) extensions are available for special order

**Industry Uses**
- Metal fabrication
- Pipe building and repair
- Steel mills and warehouses
- Lumber/finish
- Automotive assembly
- Surface Uses
  - Rubber and tires
  - Automotive, steel and iron
  - Concrete and stone
  - Structural steel
  - Pipes and tubes

**Marker not included.**

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**Mark Size** 3/32" (0.9 mm)
**Details** 10 Case

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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 120°F (49°C) to 2200°F (1204°C) these markers are ideal for use on coils, billets, bars, ingots, and plates.

Features & Benefits
- Mark surface markers operate on hot surfaces, forge, coils, bar, ingots, billets, and other hot metals
- Fast-drying marks are permanent and will not run, char, flow, discolor, peel, or crack
- Markings on surfaces can be immediately dipped into cold water baths without damaging the marks
- Ideal 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

PHOTO

//markal.com

2200          1200
2100          1150
2000          1100
1900          1050
1800          980
1700          930
1600          870
1500          820
1400          760
1300          700
1200          650
1100          600
1000          540
900          480
800          430
700          370
600          320
500          260
400          200
300          150
250          120
200          90
150          70
120          50
100          40
50          10
0          -20
-50          -50

Fahrenheit

Celsius

25
SOLID PAINT MARKERS-HOT SURFACE

markal.com
**Features & Benefits**

- **Tool Styles:**
  - **4000 Holder:**
    - Stainless steel
    - 500°F to 1200°F
    - Non-conductive
    - Good for use in hazardous environments
  - **100 Holder:**
    - Stainless steel
    - 300°F to 600°F
    - Good for use in hazardous environments
  - **102K Holder:**
    - Stainless steel
    - 200°F to 1000°F
    - Non-conductive
    - Good for use in hazardous environments
  - **111 Holder:**
    - Stainless steel
    - 200°F to 1000°F
    - Non-conductive
    - Good for use in hazardous environments

**Industry Uses**

- **Forge and casting foundries**
- **Steel mills and warehouses**
- **Aluminum mills**
- **Smelting mills**
- **Industry Uses**
- **Surface Uses**

**Surface Uses**

- **Coils**
- **Billets and bars**
- **Castings and pigs**
- **Ingots and plates**
- **Rails and beams**

**Product Details**

- **J® Paintstik**
  - Marking range: 120°F to 600°F
  - Mark Size: 3/8”
  - Features & Benefits:
    - Durable wooden holder protects the marker during use for long marking-life.
    - Fast button assembly for high productivity, even with heavy-duty gloves.
    - Designed for use with the following Markal® Hot Surface Solid Paint Markers: J®, J-75®, HT-75®, HT-50®, HT-80®, HT-200®.

- **HT-75® Paintstik®**
  - Marking range: 150°F to 900°F
  - Mark Size: 3/8”
  - Features & Benefits:
    - Hot surface paint marker for temporary marks prior to the permanently process.
    - Temporary marks above for easy use of the tool.
    - Marker will not contaminate the steel surface for future processing.

- **K® Paintstik**
  - Marking range: 180°F to 2200°F
  - Mark Size: 3/4”
  - Features & Benefits:
    - Non-conductive
    - Good for use in hazardous environments
    - Designed for use with the following Markal® Hot Surface Solid Paint Markers: K®, K-75®, HT-King®k, HT-50®.
    - For safe distance marking: 24”, 60 cm and 96” 240 cm extensions are available for special order.

- **PK® Paintstik®**
  - Marking range: 800°F to 1200°F
  - Mark Size: 3/4”
  - Features & Benefits:
    - Hot-melt refill protects the marker during use for long marking-life.
    - Quick button assembly for high productivity, even with heavy-duty gloves.
    - Designed for use with the following Markal® Hot Surface Solid Paint Markers: PK®, J5®, J-15®, J-5.

- **VOC**
  - Marking range: 200°F to 1000°F
  - Mark Size: 3/8”
  - Features & Benefits:
    - Durable wooden holder protects the marker during use for long marking-life.
    - Fast button assembly for high productivity, even with heavy-duty gloves.
    - Designed for use with the following Markal® Hot Surface Solid Paint Markers: VOC®, VOC-75®, VOC-50®, VOC-200®.

- **100 Holder**
  - Tool Style: Stainless steel
  - Marking range: 300°F to 600°F
  - Features & Benefits:
    - Durable, lightweight design.
    - Fast button assembly for high productivity, even with heavy-duty gloves.

- **102K Holder**
  - Tool Style: Stainless steel
  - Marking range: 200°F to 1000°F
  - Features & Benefits:
    - Durable, lightweight design.
    - Fast button assembly for high productivity, even with heavy-duty gloves.

- **111 Holder**
  - Tool Style: Stainless steel
  - Marking range: 200°F to 1000°F
  - Features & Benefits:
    - Durable, lightweight design.
    - Fast button assembly for high productivity, even with heavy-duty gloves.
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
- High-strength, bar-shaped pencil; multiple sizes for use with compatible torches.
- Pre-sharpened pencils can be easily sharpened with any standard pencil sharpener.
- Long-lasting and visible marks.

#### Industry Uses
- Welding
- Metal fabrication
- Shipbuilding/paintwork
- Bridge fabrication
- Construction

#### Surface Uses
- Steel and iron
- Aluminum
- Stainless steel

#### Details
- **24 Case**
  - **Silver**
  - **Red**
  - **Flat**
  - **Round**
  - **Round Marker w/10 Refills**
  - **Flat Refill - 25 Pack**
  - **Round Refill - 6 Pack**
  - **Flat Refill - 100 Pack**

### 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, torch-resistant marks.
- Marks on all metal surfaces including oily or wet.
- Marks on metal surfaces include oily or wet.
- Easy resharpened with any standard pencil sharpener.

#### Industry Uses
- Welding
- Metal fabrication
- Shipbuilding/paintwork
- Bridge fabrication
- Construction

#### Surface Uses
- Steel and iron
- Aluminum
- Stainless steel

#### Details
- **24 Case**
  - **Flat**
  - **Round**
  - **Round Marker w/10 Refills**
  - **Flat Refill - 25 Pack**
  - **Round Refill - 6 Pack**
  - **Flat Refill - 100 Pack**

### Features & Benefits
- Durable threads prevent stick breakage.
- Durable, mechanical fastener prevents tip shearing, even when sheared off by sharp knife,蛮.
- Marks on metal surfaces including oily or wet.
- Easily resharpened with any standard pencil sharpener.

#### Industry Uses
- Welding
- Metal fabrication
- Shipbuilding/paintwork
- Bridge fabrication
- Construction

#### Surface Uses
- Steel and iron
- Aluminum
- Stainless steel

#### Details
- **24 Case**
  - **Flat**
  - **Round**
  - **Round Marker w/10 Refills**
  - **Flat Refill - 25 Pack**
  - **Round Refill - 6 Pack**
  - **Flat Refill - 100 Pack**

#### Holder Pack
- **12 Case**
  - **Flat Refill - 10 Pack**
  - **Round Refill - 6 Pack**

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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® Celsius
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
- Ideal for pre-heating, post-weld heat treating, stress-relieving and annealing
- Auto-roller marks primer indicates a dent-proof priming to breakage and improved handling
- Meets welding codes: AWS D1.1, ASME Code Sec. II, VIII, III, VI, and VII
- Steel and iron surface

### Industry Uses
- Nuclear-power generation
- Various metal surface: temperature monitoring, stress-relieving and annealing
- Markal® 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 listed traceable for precise documentation.

### Industry Uses
- Nuclear-power generation
- Various metal surface: temperature monitoring, stress-relieving and annealing
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Whether marking raw materials in the field or in plant for processing, Markal® has a marker engineered for use on almost any wood surface and for use with grade mark readers.

For marking logs, boards, or raw lumber, our lumber crayons are economical and effective ways to mark wet, dry, rough, and dirty wood for improved processing and tracking.

For use with grade mark readers, our scanning crayons have been engineered with exceptional color and vibrancy to reduce misreads and improve efficiency.

### 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**
- Available in fluorescent colors for high visibility marks
- Available in high visibility colors for marking in cold climates

**Industry Serves**
- Construction
- Stone and masonry
- Lumber/timber

**Surface Uses**
- Wood
- Stone
- Metal
- Plastic
- Rubber
- Concrete

### 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 marks are weather- and UV-resistant.

**Features & Benefits**
- Available in fluorescent colors for high visibility marks
- Available in high visibility colors for marking in cold climates

**Industry Serves**
- Construction
- Stone and masonry
- Lumber/timber

**Surface Uses**
- Wood
- Stone
- Metal
- Plastic
- Rubber
- Concrete

### Details
- **144 Case**
- **Mark Size 1/2” (12.7mm)**
- **80350** White
- **80351** Yellow
- **80352** Red
- **80353** Black
- **80354** Orange
- **80355** Blue
- **80356** Green
- **80358** Purple

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**Details**
- **144 Case**
- **Mark Size 1/2” (12.7mm)**
- **80320** White
- **80321** Yellow
- **80322** Red
- **80323** Black
- **80324** Orange
- **80325** Blue
- **80326** Green
- **80328** Purple

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**Details**
- **144 Case**
- **Mark Size 1/2” (12.7mm)**
- **80451** Fluorescent Yellow
- **80452** Fluorescent Red
- **80453** Fluorescent Orange
- **80454** Fluorescent Pink

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**Details**
- **144 Case**
- **Mark Size 1/2” (12.7mm)**
- **80456** Fluorescent Red
- **80457** Fluorescent Orange
- **80458** Fluorescent Pink
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**
- Does not flake or break when the surface is handled.
- Improved break life and longer marking life.
- Superior performance on wet, rough, or uncoated wood.
- Can be used for smooth, fast marking.
- Marking range: -20°F to 120°F (-29°C to 49°C).

**Surface Uses**
- Stone and masonry
- Construction

**Industry Uses**
- Dimensional lumber
- Surface Uses
  - Rubber
  - Plastic
  - Metal
  - Stone
  - Concrete
  - Wood

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

**Features & Benefits**
- Markal SCAN-IT Plus Meet or Exceed the specifications for lumber grade marking crayons.
- Superior color expansion for increased filling and removal to competitive crayons.
- Marking on most materials; reduces scanning errors.
- Top to tip fluorescent colors in three hardnesses for varying production environments.

**Surface Uses**
- Rubber
- Plastic
- Metal

**Industry Uses**
- Lumber/timber

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

**Features & Benefits**
- Formulated to minimize color transfer to machinery, including saw dust/wood and sawdust.
- Lasts longer - up to 4x the writing life compared to ordinary marking and fluorescent markers.
- Can be used on all fluorescent colors, allowing multiple operators.

**Surface Uses**
- Lumber

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**Industry Uses**
- Dimensional lumber

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markal.com
features & benefits
• Bright colors provide the highest, most vivid response of any lumber grading marker
• Maximum character recognition and accuracy for the lowest possible reject rate
• Knurled bands allowed to meet the specifications for Loc-A-Line Colorbond® ink/erasers.
• Unique formula provides excellent writing in wet and green lumber even with lacquer coating.

industry uses
lumber & timber products

markal.com
## 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.

### 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. The refillable, all-surface marker leaves a wear-resistant mark and is safe for all surfaces.

#### 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, oily, or dirty surfaces.
- Ideal for marking on a variety of surfaces.
- Durable plastic holder helps prevent breakage and keeps hands and clothing clean.
- Push-action advancing means for easy, one-handed use.

#### Industry Uses
- Construction
- Automotive and other transportation
- Quality control
- Welding
- Metal fabricating
- Textile
- Ceramics
- Leather
- Cloth, fabric (textiles)
- Glass
- Plastic

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### 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, oily, or dirty surfaces.
- Ideal for marking on a variety of surfaces.
- Durable plastic holder helps prevent breakage and keeps hands and clothing clean.
- Push-action advancing means for easy, one-handed use.

#### Industry Uses
- Construction
- Automotive and other transportation
- Quality control
- Welding
- Metal fabricating
- Textile
- Ceramics
- Leather
- Cloth, fabric (textiles)
- Glass
- Plastic

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### SURFACE USES

- Metal fabrication
- Glass
- Quality control
- Automotive and other transportation
- Construction
- Welding
- Textile
- Ceramics
- Leather
- Cloth, fabric (textiles)
- Glass
- Plastic

### DETAILS

- **TRADES-MARKER®**
  - **TRADES-MARKER® WS**
  - **Details 6 Case**
  - **Details 24 Case**
  - **Details 48 Case**
  - **Starter Pack**
  - **Starter Pack 6 Case**
  - **Refill Pack 12 Case**
  - **Refill Pack 24 Case**
  - **Refill Pack 48 Case**
  - **Refill Pack 12 Case**
  - **Bulk Pack**
  - **Assorted**

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### TRADES-MARKER®

#### Surface Uses

- Non-porous surfaces
- Steel and iron
- Tile
- Ceramics
- Glass
- Plastic
- Steel and iron
- Tile
- Ceramics
- Glass
- Plastic

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### TRADES-MARKER WS

#### Surface Uses

- Non-porous surfaces
- Steel and iron
- Tile
- Ceramics
- Glass
- Plastic
- Steel and iron
- Tile
- Ceramics
- Glass
- Plastic

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### MARKAL.COM

markal.com
**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.
- Multipurpose marker can be used effectively in most climates.
- No sharpening required; pull off tip and sharpen with paper.
- High-visibility colors for instant identification.

**Industry Uses**
- Automotive and other transportation
- Metal fabrication
- Quality control

**Surface Uses**
- Steel, Concrete
- Metal
- Cardboard/Paper
- Plastic
- Wood

**Carpenters Pencil**
Markal® Carpenter Pencils are premium wood-cased pencils ideal for marking wood, concrete, and other surfaces. Three lead hardnesses are available to match marking surface needs.

**Features & Benefits**
- Premium pencil for clean, accurate marks on wood, concrete and other surfaces.
- Flat marker design prevents rolling on work table.
- Available in soft, medium, and hard lead to fit the surface needs.

**Industry Uses**
- Construction
- Metal fabrication
- Quality control

**Surface Uses**
- Wood
- Concrete
- Plastic
- Paper
- Cardboard

**Railroad Chalk**
Markal Railroad Chalk makes bold and wide temporary marks on most surfaces. Its large diameter, tapered design is easy to hold and is long-lasting.

**Features & Benefits**
- Large diameter chalk makes bold, wide temporary marks that are easy to read or virtually any surface.
- Wide, tapered shape is easy to hold, even with gloves.

**Industry Uses**
- Construction
- Metal fabrication
- Metal production
- Automotive and other transportation
- Lumber/timber
- Tire repair and retreading

**Surface Uses**
- Steel and iron
- Wood
- Concrete
- Plastic
- Rubber
- Asphalt
MRO AND PVF CHEMICALS

Features & Benefits
- **Clear***: 2250 PPS (44 BAR) for pipe, 5,500 PSI (36 BAR) for liquid
- **Sealing temperature**: -80°F to 600°F (-62°C to 315°C)
- **Contains**: PTFE particles for greater sealing power.
- **Will not harden or dry out over time**, retains flexibility for easy disassembly.
- **Safe**, non-toxic, contains no solvents.
- **Washes off hands and clothes easily**, latex gloves can be used.
- **Do not use on oxygen service**, use Cool Gel PTFE Tape instead.
- **Use on any type of seal surface**.

Approvals/Certifications
- **NSF**
- **FCB** system component indicates that this product has been tested and is recommended for certain applications.

Surface Uses
- **Metal**
- **PVC**
- **CPVC**
- **ABS**

**Details**
- **24 Cases** 4544
- **1 Case** 4545
- **#2** 4541
- **14#** 4542
- **10#** 4543
- **5#** 4544
- **#** 4545

Cool Gel®

Features & Benefits
- **Cooling technology**
- **Liquid** or **solid** base
- **Safe**, non-toxic, contains no solvents.

Approvals/Certifications
- **NSF**
- **FCB**

Surface Uses
- **Metal**, **Plastics**, **Welds**

**Details**
- **24 Cases** 8303
- **1 Case** 8304
- **#2** 8304
- **4 Cases** 8305
- **1 Case** 8306
- **#** 8307

Pipe Thread Tape of PTFE

Features & Benefits
- **Pressure**: 10,000 PSI (68 BAR)
- **Sealing temperature**: -80°F to 600°F (-62°C to 315°C)
- **Contains**: PTFE particles for greater sealing power.

Approvals/Certifications
- **NSF**
- **FCB**

Surface Uses
- **Lead-free and copper solvent solder**

**Details**
- **24 Cases** 4537
- **14#** 4538
- **10** 4539
- **5#** 4540

Pipe Tape of PTFE

Details 24 Case

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.

Features & Benefits
- **600°F** (315°C)
- **Contains**: PTFE particles for greater sealing power.

Approvals/Certifications
- **NSF**
- **FCB**

Surface Uses
- **Metal**
- **PVC**
- **CPVC**
- **ABS**

**Details**
- **24 Cases** 4537
- **14#** 4538
- **10#** 4539
- **5#** 4540

Regular Flux

Features & Benefits
- **Mineral spirits**
- **Non-corrosive**
- **Non-toxic**

Approvals/Certifications
- **NSF**
- **FCB**

Surface Uses
- **Metal**, **Plastics**, **Welds**

**Details**
- **24 Cases** 11513
- **14#** 11530
- **10#** 11531
- **#** 11542

Slic-tite® PTFE Thread Tape

Features & Benefits
- **Pressure**: 10,000 PSI (68 BAR)
- **Sealing temperature**: -80°F to 600°F (-62°C to 315°C)
- **Contains**: PTFE particles for greater sealing power.

Approvals/Certifications
- **NSF**
- **FCB**

Surface Uses
- **Lead-free and copper solvent solder**

**Details**
- **24 Cases** 4529
- **14#** 4528
- **10#** 4527
- **5#** 4526
- **#** 4525

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
- **Clear***: 2250 PPS (44 BAR) for pipe, 5,500 PSI (36 BAR) for liquid
- **Sealing temperature**: -80°F to 600°F (-62°C to 315°C)
- **Safe**, non-toxic, contains no solvents.
- **Contains**: PTFE particles for greater sealing power.
- **Washes off hands and clothes easily**, latex gloves can be used.
- **Do not use on oxygen service**, use Cool Gel PTFE Tape instead.

Approvals/Certifications
- **NSF**
- **FCB** system component indicates that this product has been tested and is recommended for certain applications.

Surface Uses
- **Metal**
- **PVC**
- **CPVC**
- **ABS**

**Details**
- **24 Cases** 4529
- **14#** 4528
- **10#** 4527
- **5#** 4526
- **#** 4525

The Lubrizol Corporation.

VOC

Cool Gel®

Features & Benefits
- **Liquid** or **solid** base
- **Safe**, non-toxic, contains no solvents.

Approvals/Certifications
- **NSF**
- **FCB**

Surface Uses
- **Metal**, **Plastics**, **Welds**

**Details**
- **24 Cases** 8303
- **1 Case** 8304
- **#2** 8304
- **4 Cases** 8305
- **1 Case** 8306
- **#** 8307

Pipe Thread Tape of PTFE

Features & Benefits
- **Pressure**: 10,000 PSI (68 BAR)
- **Sealing temperature**: -80°F to 600°F (-62°C to 315°C)
- **Contains**: PTFE particles for greater sealing power.

Approvals/Certifications
- **NSF**
- **FCB**

Surface Uses
- **Lead-free and copper solvent solder**

**Details**
- **24 Cases** 4529
- **14#** 4528
- **10#** 4527
- **5#** 4526
- **#** 4525

Pipe Tape of PTFE

Features & Benefits
- **Pressure**: 10,000 PSI (68 BAR)
- **Sealing temperature**: -80°F to 600°F (-62°C to 315°C)
- **Contains**: PTFE particles for greater sealing power.

Approvals/Certifications
- **NSF**
- **FCB**

Surface Uses
- **Lead-free and copper solvent solder**

**Details**
- **24 Cases** 4529
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Pipe Tape of PTFE

Features & Benefits
- **Pressure**: 10,000 PSI (68 BAR)
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Approvals/Certifications
- **NSF**
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Surface Uses
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**Details**
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Pipe Tape of PTFE

Features & Benefits
- **Pressure**: 10,000 PSI (68 BAR)
- **Sealing temperature**: -80°F to 600°F (-62°C to 315°C)
- **Contains**: PTFE particles for greater sealing power.

Approvals/Certifications
- **NSF**
- **FCB**

Surface Uses
- **Lead-free and copper solvent solder**

**Details**
- **24 Cases** 4529
- **14#** 4528
- **10#** 4527
- **5#** 4526
- **#** 4525

Pipe Tape of PTFE
**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**
- **Operating temperature:** To 2600°F (1427°C)
- **Lubricates and protects nuts and bolts, making disassembly easy even after years of service.
- **Splash galvanic rust and corrosion on your metal parts won’t “freeze up”**
- Copper matrix is easy to use in most general applications.

**Surface Uses**
- Nuts
- Bolts
- Valves
- Flanges
-Splines

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

**Pierce®**

**Features & Benefits**
- **Operating temperature:** To 2600°F (1427°C)
- **Lubricates and protects nuts and bolts, making disassembly easy even after years of service.
- **Nuts are excellent for ultra-high temperature applications.
- **Surface Uses**
  - Equipment
  - Turbines
  - Valves
  - Flanges

**Surface Uses**
- Nuts
- Bolts
- Valves
- Flanges

**Approvals/Certifications**
- NSF

**Zoom Spout® Oil**

**Features & Benefits**
- **Oil-based anti-seize lubricant** for use in extreme conditions.
- **Surface Uses**
  - Bearings
  - Motors

**Surface Uses**
- Bearings
- Motors

**Duct Tape**

**Features & Benefits**
- **Adhesive tape** for duct use and other applications.
- **Surface Uses**
  - Water systems
  - Flexible pipe

**Surface Uses**
- Water systems
- Flexible pipe

**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**
- **Operating temperature:** To 2600°F (1427°C)
- **Lubricates and protects nuts and bolts, making disassembly easy even after years of service.
- **Nuts are excellent for ultra-high temperature applications.
- **Surface Uses**
  - Equipment
  - Turbines
  - Valves
  - Flanges

**Surface Uses**
- Nuts
- Bolts
- Valves
- Flanges

**Approvals/Certifications**
- NSF

**Rust Buster®**

**Features & Benefits**
- **Operating temperature:** To 2600°F (1427°C)
- **Lubricates and protects nuts and bolts, making disassembly easy even after years of service.
- **Surface Uses**
  - Equipment
  - Turbines
  - Valves
  - Flanges

**Surface Uses**
- Nuts
- Bolts
- Valves
- Flanges

**Approvals/Certifications**
- NSF

**EPOXY-STIK®**

**Features & Benefits**
- **Operating temperature:** To 250°F (121°C)
- **Surface Uses**
  - Bearings
  - Motors

**Surface Uses**
- Bearings
- Motors

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