



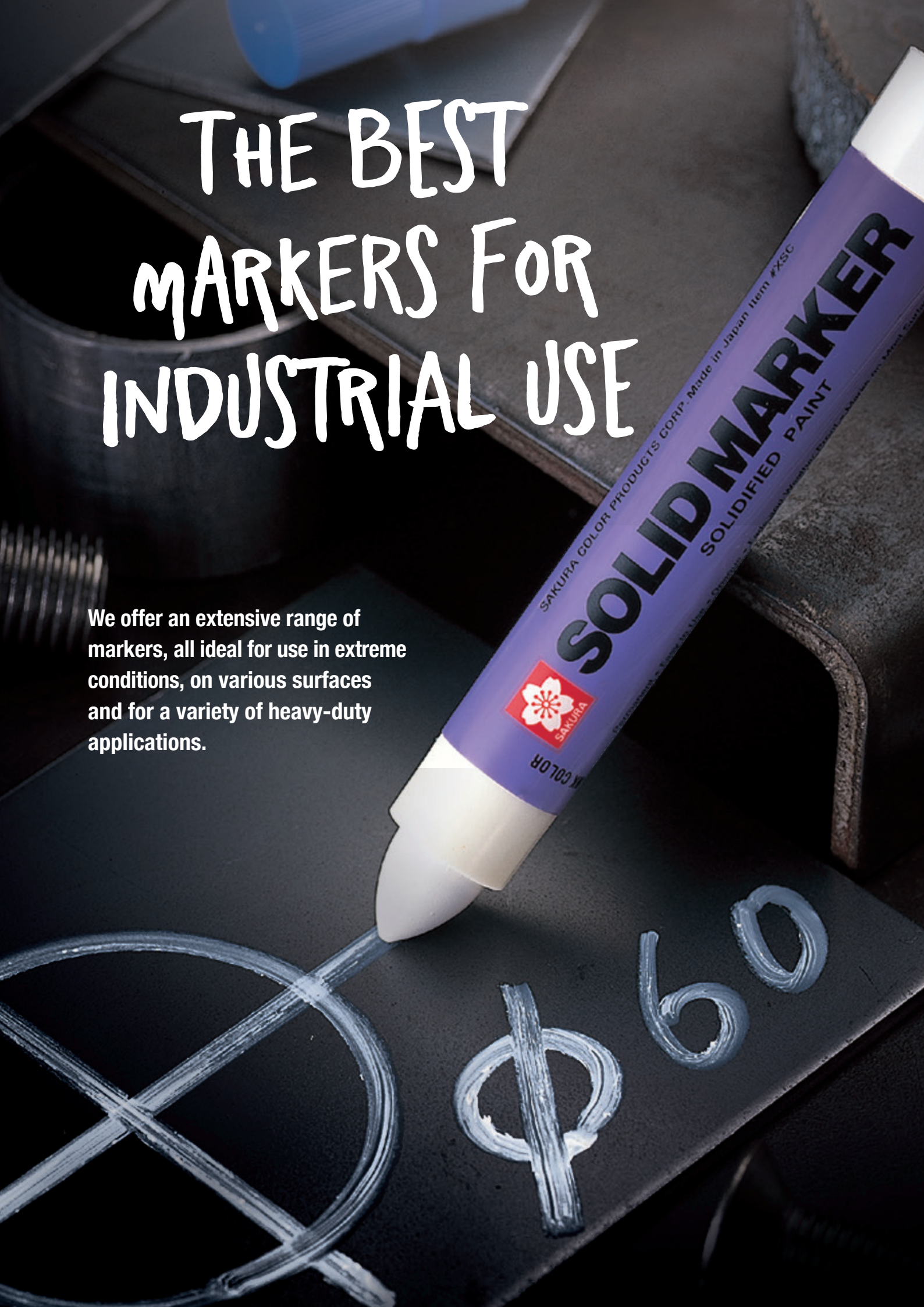
INDUSTRIAL MARKERS



JAPANESE
INNOVATION IN MARKING
AND WRITING

THE BEST MARKERS FOR INDUSTRIAL USE

We offer an extensive range of markers, all ideal for use in extreme conditions, on various surfaces and for a variety of heavy-duty applications.



ABOUT SAKURA

Ever since 1978, we have been developing high-quality and innovative products for industrial use.



As a result of intensive research, ongoing product development and feedback from users, we lead this market. We are proud of that. Throughout the world, we supply prominent organisations in the road construction, shipping, carpenter, wood, steel, chemical, aviation and the automotive industry.

Sakura Solid Marker is derived from our ambition to constantly improve ourselves. It is the world's first marker

with paint in a solid form. It always works, anywhere, anytime, even in water! In addition to the Solid Marker, Sakura provides a high-quality Paint Marker and the Pen-touch. Your clients can rely on the superior quality of the industrial markers from Sakura.

Sakura, your choice to perfection.

ROYAL  TALENS

SOLID MARKER

P I G M A
MICRON

Pen-touch

MICROPERM

IDENTI PEN

Opaque Pigment Marker
PERMAPAQUE

FOR U.S. ONLY:



Products bearing this symbol have been evaluated in the US by a medical expert to certify that they do not possess more than the allowable level of materials toxic to humans and have received certification from ACMI (Art & Creative Materials Institute) in regard to material safety.

CONTENT

INDUSTRIAL MATERIALS







Metal, glass, plastics, stone, wood, rubber

Waterproof & fade resistant

					
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-10°C - 200°C		-10°C - 125°C	-40°C - 100°C		
In water					

PAPER

Waterproof & fade resistant

					
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Standard working temperature					

STAINLESS STEEL

Waterproof & fade resistant

	
Solid Marker Low Halogen p 26	Low Halogen Paint Marker p 27
-40°C - 100°C	Std. working temp.
In water	

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Subject to modifications.

January 2022

Waterproof & fade resistant

Fade resistant



Permapaque
Fine
p 12



Permapaque
Dual Point
p 13



Pen-touch
p 14



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Crayon Marker
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Water Soluble
Marker
p 17

Standard working temperature

Waterproof



IDenti-Pen
Fine Point
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Pen-touch
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Standard working temperature

A MARKER FOR EVERY INDUSTRIAL PURPOSE

Navigate easily through this brochure with this convenient product overview. To find the appropriate markers for your purpose, select the surface on which you want to mark and the required working temperature.

Some markers are suitable for various surfaces and therefore can appear more often.

Technical specifications of each marker can be found in the matrix on the last pages of this brochure.

ROYAL  TALENS



SOLID MARKER ORIGINAL




Shown in actual size

An extremely tough marker for tough jobs!

Solid Marker is the world's first solidified paint in a marker stick. It always works, anywhere, anytime! Its innovative "stay fresh" twist mechanism keeps the paint fresh and ready to use. If the marker does dry out, it can easily be revived by trimming it with a knife. It can also be trimmed to create smaller marks.

PROPERTIES

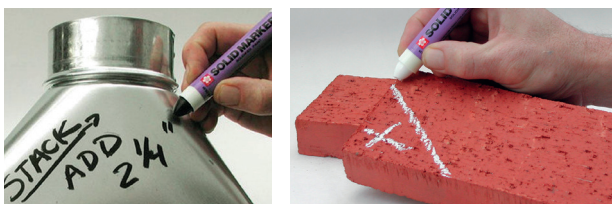
- Marks through dust and rust, on rough and smooth surfaces, inside or outside and even in water.
- Ideal for use on wood, cloth & canvas, plastic, steel & iron, rubber, cardboard, glass, fiberglass & concrete.
- Used in construction, welding & fabrication, pipelines & drilling, assembly lines, automotive tires & windshields, HVAC (Heating Ventilation Air Conditioning), plumbing systems or with stencils.
- Dries within minutes, is permanent once dry and virtually odourless.
- Removable from non-porous surfaces with alcohol or lacquer thinner.
-  EU CLP safety label:
WARNING: Causes skin irritation. Causes serious eye irritation.



SPECIFICATIONS

Art. no.	XSC#..	Working temp.	-10°C - 200°C
Packaging	12/432	Ink type	Pigment solvent-based ink
		Diameter	12 mm
		Size	135 mm

XSC#..



1 Does not apply to fluorescent colours.

SOLID MARKER SLIM


This slim version of the original Solid Marker is ideal for more detailed lines.

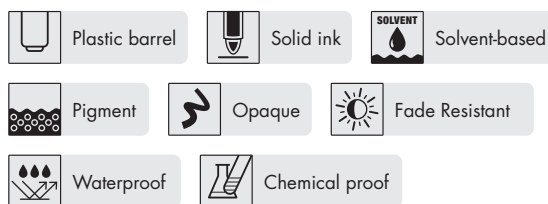
It always works, anywhere, anytime! Its innovative “stay fresh” twist mechanism keeps the paint fresh and ready to use. If the marker does dry out, it can easily be revived by trimming it with a knife. It can also be trimmed to create smaller marks.



Shown in actual size

PROPERTIES

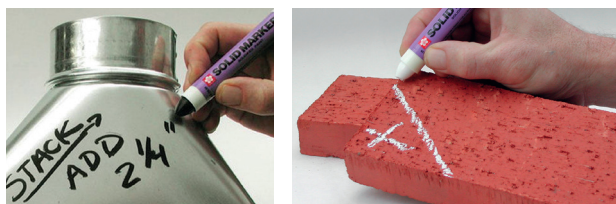
- Marks through dust and rust, on rough and smooth surfaces, inside or outside and even in water.
- Ideal for use on wood, cloth & canvas, plastic, steel & iron, rubber, cardboard, glass, fiberglass & concrete.
- Used in construction, welding & fabrication, pipelines & drilling, assembly lines, automotive tires & windshields, HVAC (Heating Ventilation Air Conditioning), plumbing systems or with stencils.
- Dries within minutes, is permanent once dry and virtually odourless.
- Removable from non-porous surfaces with alcohol or lacquer thinner.
-  EU CLP safety label:
WARNING: Causes skin irritation. Causes serious eye irritation.



SPECIFICATIONS

Art. nr.	XSCS#..	Working temp.	-10°C - 200°C
Packaging	12/432	Ink type	Pigment solvent-based ink
		Diameter	8 mm
		Size	135 mm

XSCS#..



SOLID MARKER GLOW IN THE DARK


This glow-in-the-dark version of the original Solid Marker is the first marker of its kind to incorporate safety-grade photoluminescent material for easy glow-in-the-dark applications.

After light exposure, marks will glow up to 30 minutes due to photo luminescent pigments. The brightness and the duration of the glow is dependent upon: the intensity of the light/energy source the mark is exposed to, the distance of the light/energy, the duration of time which the mark is exposed and the paint thickness of the mark.

Shown in actual size



PROPERTIES

- Marks through dust and rust, on rough and smooth surfaces, inside or outside and even in water.
- Possible applications include those for: aerospace, commercial fishing boats, fire stations, mining, search & rescue, construction sites, highway construction, shipping, warehouses and safety & directional signage, basically anywhere you need to easily communicate a message in the dark.
- Dries within minutes, is permanent once dry and virtually odourless.
- Removable from non-porous surfaces with alcohol or lacquer thinner.
- Avoid use on acidic surfaces lower than pH of 2.0.
- Meets ASTM E2072-02 Luminance Standard.
-  EU CLP safety label:
WARNING: Causes skin irritation. Causes serious eye irritation.



SPECIFICATIONS

Art. nr.	XSC#..	Working temp.	-10°C - 120°C
Packaging	12/432	Ink type	Pigment solvent-based ink
		Diameter	12 mm
		Size	135 mm

XSC#RT

300

SOLID MARKER LOW TEMPERATURE


This low temperature version of the original Solid Marker can operate in temperatures as low as -40°C .

It always works, anywhere, anytime! Its innovative "stay fresh" twist mechanism keeps the paint fresh and ready to use. If the marker does dry out, it can easily be revived by trimming it with a knife. It can also be trimmed to create smaller marks.

Shown in actual size



PROPERTIES

- Marks through dust and rust, on rough and smooth surfaces, inside or outside and even in water.
- Ideal for use on wood, cloth & canvas, plastic, steel & iron, rubber, cardboard, glass, fiberglass & concrete.
- Used in construction, welding & fabrication, pipelines & drilling, assembly lines, automotive tires & windshields, HVAC (Heating Ventilation Air Conditioning), plumbing systems or with stencils.
- Dries within minutes, is permanent once dry and virtually odourless.
- Removable from non-porous surfaces with alcohol or lacquer thinner.
-  EU CLP safety label:
WARNING: Causes skin irritation. Causes serious eye irritation.



SPECIFICATIONS

Art. nr.	XSC-T#..	Working temp.	$-40^{\circ}\text{C} - 100^{\circ}\text{C}$
Packaging	12/432	Ink type	Pigment solvent-based ink
		Diameter	12 mm
		Size	135 mm

XSC-T#RT



METAL MARKER

Waterproof & fade resistant

Standard working temperature

A metal marker with liquid ink valve action system to easily mark various types of metal.

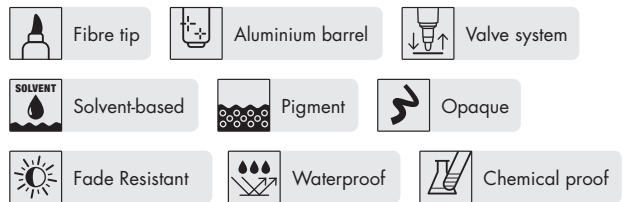
This marker meets PSPC requirements (Performance Standard for Protective Coatings), so marks made with Metal Markers, for example on ballast tanks of ships, are perfect to paint over, leaving no traces and no bleeding.

Shown in actual size



PROPERTIES

- Suitable for most types of metal including galvanized steel.
- Ideal for identification, signage, security marking on any surface.
- Fast-drying, bold, long-lasting marks.
- Solvent-based paint for less odour.
- High-strength, lightweight aluminium barrel for heavy industrial use.
- Meets PSPC (Performance Standard for Protective Coatings).



METAL MARKER EXTRA BOLD SPECIFICATIONS

Art. nr.	PKK-J#..
Packaging	10/200
Line width	10 mm
Size	152 mm

METAL MARKER MEDIUM SPECIFICATIONS

Art. nr.	PKK-M#..
Packaging	10/200
Line width	3 mm
Size	152 mm

PKK-J#.. PKK-M# PKK-S#



METAL MARKER FINE SPECIFICATIONS

Art. nr.	PKK-S#..
Packaging	10/300
Line width	2 mm
Size	140 mm

Working temp.	5°C - 40°C
Ink type	Pigment solvent-based ink
Nib	Semi-hard (fiber)

PAINT MARKER



A marker with liquid paint that produces clear and strong results on any surface.

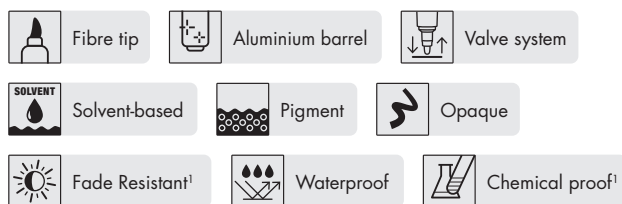
Marks made with Paint Marker are lightfast and fade resistant* to water and chemicals. This marker combines the colouring power of paint with the convenience of a marker.

* Except for Fluorescent Yellow 302.

Shown in actual size

PROPERTIES

- Writes on various surfaces including wood, metal, earthenware, leather, plastic, glass, paper and cardboard.
- Quick drying and permanent once dry.
- Very strong ink adhesion (depending on type of surface).
- Features a durable aluminium barrel, made to withstand abuse during extreme industrial use.
- Available in up to 7 opaque colours.



SPECIFICATIONS

		Working temp.	5°C - 40°C
Art. nr.	XPMK#.. (F)	Ink type	Pigment solvent-based ink
	XPMK-B#.. (M)	Line width	1 mm (fine) 2 mm (medium)
Packaging	12/576	Size	142 mm

XPMK#

49

XPMK-B#

19

24

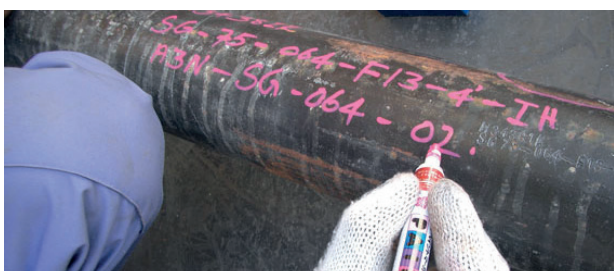
25

29

302

49

50



¹ Does not apply to fluorescent colours.

PERMAPAQUE FINE



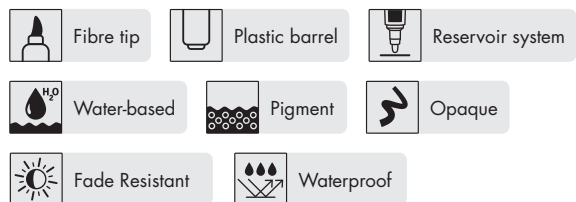
Shown in actual size

An opaque marker with a fine tip that requires no shaking or pumping.

The ink is delivered through a traditional fibre tip and reservoir system – unique for an opaque ink marker – that makes this marker easy to use and always ready for action.

PROPERTIES

- Ideal for use on coated paper, wood, metal, plastic tubes, aluminium, and glass.
- Suitable for a wide variety of industrial environments.
- Odourless and non-toxic.
- Features a fine point for fine details and precise lines.



SPECIFICATIONS

Art. nr.	XZPK-SN#..	Working temp.	5°C - 40°C
Packaging	12/1152	Ink type	Water-based pigment ink
		Line width	1 mm
		Size	135 mm

XZPK-SN#



PERMAPAQUE DUAL POINT



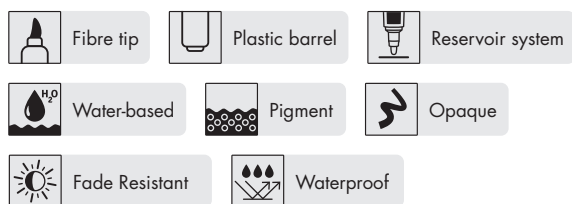
Shown in actual size

An opaque marker with two tips that requires no shaking or pumping.

The ink is delivered through a fibre tip and reservoir system – unique for an opaque ink marker – which makes this marker easy to use and always ready for action.

PROPERTIES

- Ideal for use on coated paper, wood, metal, plastic tubes, aluminium, and glass.
- Suitable for a wide variety of industrial environments.
- Odourless and non-toxic.
- Features two tips: a chisel point for wide coverage and a bullet point for finer details.



SPECIFICATIONS

Art. nr.	XZPK-TN#..	Working temp.	5°C - 40°C
Packaging	12/480	Ink type	Water-based pigment ink
		Line width	1 mm (bullet), 5.5 mm (chisel)
		Size	135 mm

XZPK-TN#



PEN-TOUCH



Shown in actual size

An opaque, solvent-based ink marker for permanent marks.

Pen-touch works on most porous and non-porous surfaces and offers permanent, clear results. The marker features an aluminium barrel and a valve-action mechanism to ensure good flow of the highly pigmented ink.

Pen-touch Extra Fine

	Art. nr.
○	42100
●	XPSKA49
● (fluorescent)	XPSKA302
● (fluorescent)	XPSKA305
● (fluorescent)	XPSKA319
● (fluorescent)	XPSKA320
● (metallic)	41101
● (metallic)	41102
● (metallic)	41103

Pen-touch Fine

	Art. nr.
○	42300SE
●	XPMKA19
●	XPMKA24
●	XPMKA29
●	XPMKA3
●	XPMKA36
●	XPMKASE49
● (fluorescent)	XPMKA302
● (fluorescent)	XPMKA305
● (fluorescent)	XPMKA319
● (fluorescent)	XPMKA320
● (metallic)	41301SE
● (metallic)	41302SE
● (metallic)	41303SE

Pen-touch Medium

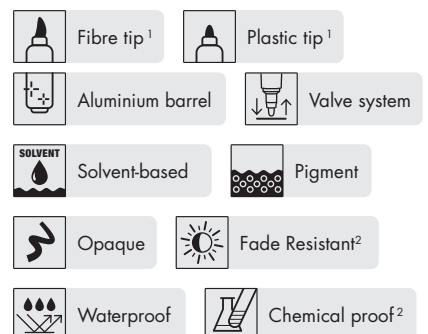
	Art. nr.
○	42500
●	XPFKA19
●	XPFKA24
●	XPFKA29
●	XPFKA3
●	XPFKA36
●	XPFKA49
● (fluorescent)	XPFKA302
● (fluorescent)	XPFKA305
● (fluorescent)	XPFKA319
● (fluorescent)	XPFKA320
● (metallic)	41501
● (metallic)	41502
● (metallic)	41503

PROPERTIES

- Writes on various surfaces, including steel & iron, sheet metal, glass & plexiglass, wood, ceramics, porcelain and plastics.
- Ideal for several industrial uses, including marking and identifying parts, pipes & tubing, sheet metal, wiring, construction assembly, manufacturing & fabrication processes.
- Adheres permanently to most surfaces.
- Removable from non-porous surfaces with alcohol or lacquer thinner.

SPECIFICATIONS

Packaging	12/576
Working temp.	5°C - 40°C
Ink type	Pigment solvent-based ink
Line width	0.7 mm (EF) 1 mm (F) 2 mm (M)
Size	141 mm



1 Pen-touch Marker EF has a plastic nib. M and F have fibre nibs.
2 Does not apply to fluorescent colours.

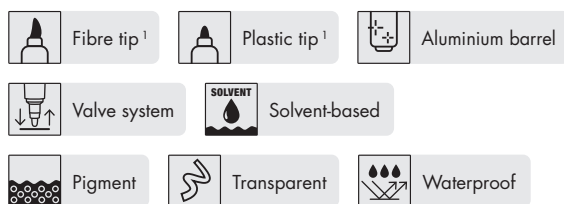
PEN-TOUCH UV



Permanent marker with UV ink to make clear, invisible marks that illuminate bright blue when viewed with an ultraviolet or black light. Pen-touch works on most surfaces and offers permanent results. The marker features an aluminium barrel and a valve-action mechanism to ensure a good ink flow.

PROPERTIES

- Suitable for various industrial purposes, including manufacturing, quality control, security and theft prevention, construction.
- Adheres permanently to most surfaces.
- Removable from non-porous surfaces with alcohol or lacquer thinner.



SPECIFICATIONS

Art. nr.	XPSKA-UV#336 XPMKA-UV#336 XPFKA-UV#366	Working temp.	5°C - 40°C
Packaging	12/576	Ink type	Pigment solvent-based ink
		Line width	0.7 mm (extra fine) 1 mm (fine) 2 mm (medium)
		Size	137 mm (extra fine, fine) 142 mm (medium)

EXTRA FINE: XPSKA-UV#336

FINE: XPMKA-UV#336

MEDIUM: XPFKA-UV#336

336

¹ Pen-touch Marker EF has a plastic nib. M and F have fibre nibs.

CRAYON MARKER

General purpose crayon stick marker is made for a variety of industrial applications. Made from a wax material and opaque pigments, it writes on most wet or dry, rough or smooth surfaces (except on wet glass).



Shown in actual size



PROPERTIES

- Waterproof, opaque and highly fade-resistant on most non-porous surfaces and easy to apply on both smooth and rough surfaces.
- Suitable for various surfaces, including PVC, tin, iron, wood, concrete, aluminium and glass.
- Removable from most non-porous surfaces through friction created by hard rubbing.



Crayon



Wax based



Pigment



Opaque



Fade Resistant



Waterproof

SPECIFICATIONS

Art. nr.	GHY#..	Working temp.	5°C - 40°C
Packaging	10/200	Ink type	Pigment & wax
		Diameter	15 mm
		Size	125 mm

GHY#



WATER SOLUBLE MARKER

Water soluble crayon marker for temporary marks.

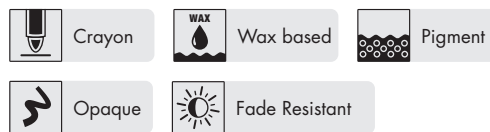
This general-purpose crayon stick marker is made for a variety of industrial applications in which the mark needs to be removed easily.

Shown in actual size



PROPERTIES

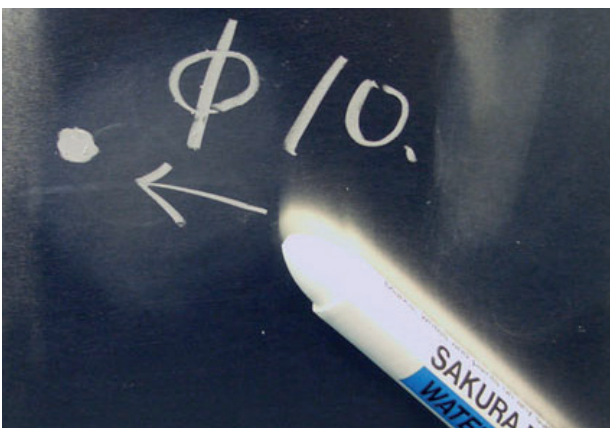
- Suitable for marking on glass, PVC, tin, iron, wood, concrete, aluminium, etc.
- Writes on most dry, rough or smooth surfaces.
- Made from a water-soluble wax material and opaque pigments.
- The mark is easily removed from non-porous surfaces with water and a cloth.



SPECIFICATIONS

Art. nr.	WSC#..	Working temp.	5°C - 40°C
Packaging	10/200	Ink type	Pigment & wax
		Diameter	15 mm
		Size	125 mm

WSC#



PIGMA MICRON











The best choice for fine-point technical applications.

Pigma Micron is the first disposable technical pen using archival pigmented ink. The fineliners have a protective metal sleeve around the extended tip to give extra control and increased resilience when used with drawing aids such as rulers.

PROPERTIES

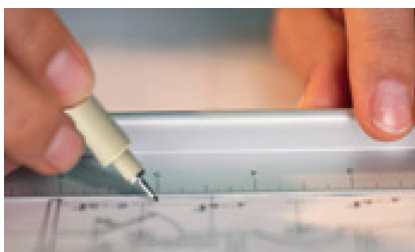
- Used by technical professionals such as anthropologists, entomologists, scientists, engineers, archivists, architects and in research laboratories.
- Does not smear, feather, or bleed through on most paper.
- Permanent, archival quality ink.
- Waterproof, and fade resistant.
- Water-based formulation of pigment-based inks, more complex and stable than dye-based inks.
- Choose from the range of ten nib sizes for precise line widths.

 Plastic barrel	 Reservoir system	
 Water-based	 Pigment	 Transparent
 Fade Resistant	 Waterproof	 Chemical proof

SPECIFICATIONS

Art. nr.	XSDK#..	Working temp.	5°C - 40°C
Packaging	12/1152	Ink type	Water-based pigment ink
		Size	135 mm

XSDK003#49	XSDK02#49	XSDK05#49	XSDK12#49
XSDK005#49	XSDK03#49	XSDK08#49	
XSDK01#49	XSDK04#49	XSDK10#49	



003	005	01	02	03	04	05	08	10	12
0.15 mm	0.20 mm	0.25 mm	0.3 mm	0.35 mm	0.40 mm	0.45 mm	0.50 mm	0.60 mm	0.70 mm



MICROPERM



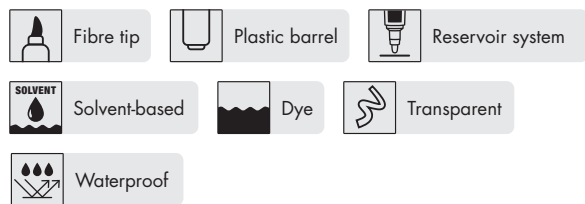
Shown in actual size

An ultra-fine line, waterproof permanent ink pen.

Microperm pens have a protective metal sleeve around the extended tip to give extra control and increased resilience when used with drawing aids such as rulers. The ideal pen to create permanent marks with ultimate precision.

PROPERTIES

- Suitable for nearly any surface including metal, glass, plastic, wood and cellophane.
- Applications: transparencies, test tubes, glass slides, diamond markings, CD labelling, electrical wires and laboratory glassware.
- Dries quickly and is permanent once dry.
- Removable from non-porous surfaces with alcohol-based cleaners.
- Not recommended for use on fabrics.



SPECIFICATIONS

		Working temp.	5°C - 40°C
Art. nr.	XEOK01#49	Ink type	Dyestuff solvent-based ink
	XEOK03#49	Line width	01 = 0.2 mm
	XEOK05#49		03 = 0.4 mm
Packaging	12/1152		05 = 0.5 mm
		Size	135 mm

XEOK01#49
XEOK03#49
XEOK05#49

IDENTI-PEN FINE POINT

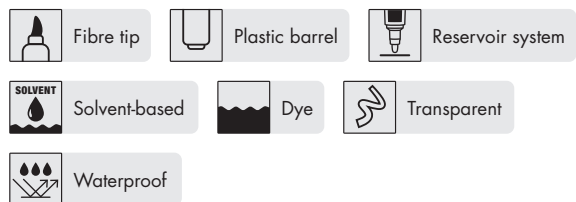
A tough, multi-purpose pen that will work on almost any surface! This Identi-Pen has a fine, bullet shaped fibre nib for easy and clear writing.

Shown in actual size



PROPERTIES

- Use this pen on paper/board products and non-porous surfaces such as metal, glass, tools, test tubes, plastics, CD labelling, wood and photographs.
- Permanent, waterproof, low-odour, quick-drying ink that is bleed-proof on most paper.
- Durable nibs and barrel for heavy use.
- Removable from non-porous surfaces with alcohol-based cleaners. Not recommended for use on fabrics intended to be washed.



SPECIFICATIONS

Art. nr.	XYK-S#..	Working temp.	5°C - 40°C
Packaging	12/1152	Ink type	Dyestuff solvent-based ink
		Line width	1 mm (fine)
		Size	137 mm

XYK-S#

IDENTI-PEN DUAL POINT

A tough, multi-purpose pen that will work on almost any surface!

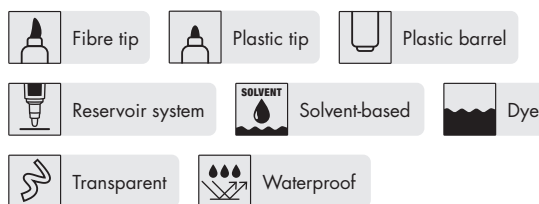
This IDenti-Pen has two different tips that offer added functionality: a fine, bullet-shaped fibre tip on one end and an even finer plastic tip for details on the other. Create permanent details and fine lines with this durable dual-sided pen!



Shown in actual size

PROPERTIES

- Use this pen on paper/board products and non-porous surfaces such as metal, glass, tools, test tubes, plastics, CD labelling, wood and photographs.
- Permanent, waterproof, low-odour, quick-drying ink that is bleed-proof on most paper.
- Durable nibs and barrel for heavy use.
- Removable from non-porous surfaces with alcohol-based cleaners. Not recommended for use on fabrics intended to be washed.



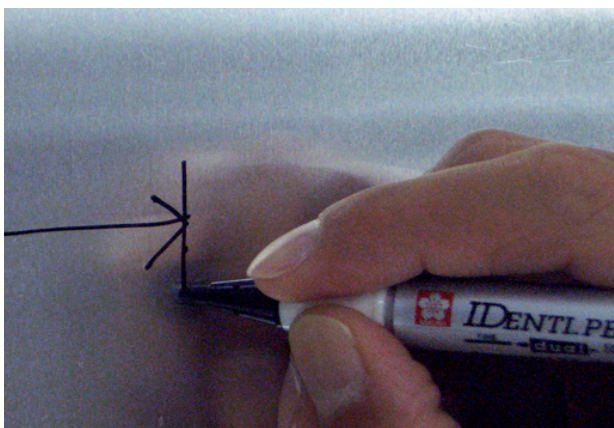
SPECIFICATIONS

Art. nr.	XYK-T#..	Working temp.	5°C - 40°C
Packaging	12/1152	Ink type	Dyestuff solvent-based ink
		Nib	Semi Hard (fiber fine) Hard (plastic extra fine)
		Line width	1 mm (fine) 0.4 mm (extra fine)
		Size	137 mm

XYK-T#



* Photographs: it is recommended to use on the white edge of photo paper. It's not recommend to use directly on photo image. Depending on the storage condition, ink may cause damage when applied directly on the photo image.



EXTRA BROAD MARKER

An extra broad marker for bold applications.

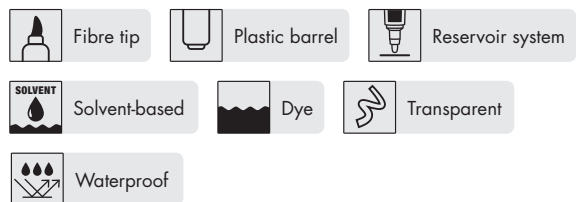
With its rectangular 10 x 17 mm shape tip and excellent ink flow, the Extra Broad Marker can make a 17 mm stroke with one pass. Its durable plastic barrel is designed to withstand heavy abuse and is perfect for industrial use.

Shown in actual size



PROPERTIES

- Writes on most surfaces: plastic, wood, metal, concrete, glass, coated paper, cardboard.
- Ideal for covering large areas, identification signage, or anywhere writing or marks need to stand out and be noticed.
- Ink adhesion is dependent upon type of surface.
- Removable from non-porous surfaces with alcohol-based cleaners.
- Not recommended for use on fabrics intended to be washed.



SPECIFICATIONS

Art. nr.	XIGKS#	Working temp.	5°C - 40°C
Packaging	6/240	Ink type	Dyestuff solvent-based ink
		Line width	10 to 17 mm
		Size	135 mm

XIGKS#

PEN-TOUCH EXTRA BROAD



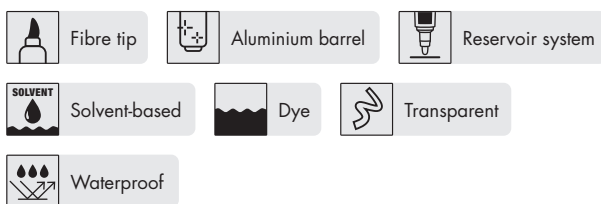
Shown in actual size

A solvent-based marker ideal for large applications.

With its rectangular 10 x 16 mm chisel-shaped tip and excellent ink flow, Pen-touch Extra Broad can make a 16 mm stroke. The durable aluminium barrel is designed to withstand heavy abuse and is perfect for industrial use.

PROPERTIES

- Writes on most surfaces, including wood, metal, concrete, glass, coated paper, cardboard and plastic.
- Ideal for identification, signage, or anywhere large bold writing needs to stand out and be noticed.
- Solvent-based ink with a dyestuff colourant offers strong adhesion, perfect to key well onto various surfaces.
- Quick drying.



SPECIFICATIONS

Art. nr.	XTJK#..	Working temp.	5°C - 40°C
Packaging	12/288	Ink type	Dyestuff solvent-based ink
		Line width	10 to 16 mm
		Size	135 mm

XTJK#



PEN-TOUCH SAKURA 130



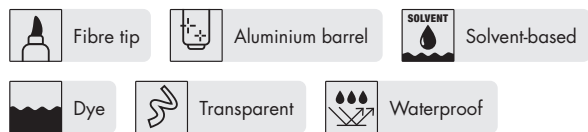
Shown in actual size

A solvent-based, permanent bullet point marker.

This marker is ideal for fine to bold signage and covering large areas. Its durable aluminium barrel withstands heavy abuse and is made for industrial use.

PROPERTIES

- Writes on most surfaces, including wood, metal, concrete, glass, coated paper, cardboard and plastic.
- Ideal for covering large areas, identification signage, or anywhere writing needs to be noticed.
- Quick drying.



SPECIFICATIONS

Art. nr.	SAKURA 130#..	Working temp.	5°C - 40°C
Packaging	12/864	Ink type	Dyestuff solvent-based ink
		Line width	1.2 mm
		Size	142 mm

SAKURA 130#



PEN-TOUCH SAKURA 140

A solvent-based, permanent chisel point marker.

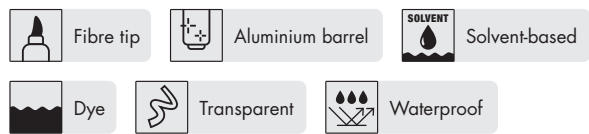
This marker is ideal for extra bold signage and covering large areas. Its durable aluminium barrel withstands heavy abuse and is made for industrial use.

Shown in actual size



PROPERTIES

- Writes on most surfaces, including wood, metal, concrete, glass, coated paper, cardboard and plastic.
- Ideal for covering large areas, identification signage, or anywhere writing needs to be noticed.
- Quick drying.



SPECIFICATIONS

		Working temp.	5°C - 40°C
Art. nr.	SAKURA 140#..	Ink type	Dyestuff solvent-based ink
Packaging	12/864	Line width	4 mm
		Size	142 mm

SAKURA 140#



SOLID MARKER LOW HALOGEN


This low-halogen version of the original Solid Marker is ideal for environments where corrosion is a concern.

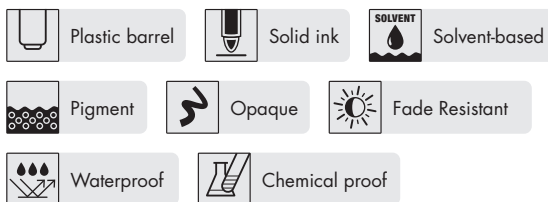
Its innovative “stay fresh” twist mechanism keeps the paint fresh and ready to use. If the marker does dry out, it can easily be revived by trimming it with a knife. It can also be trimmed to create smaller marks.

Shown in actual size



PROPERTIES

- Low Halogen Marker contains less halogens (Br, Cl, F, I) and metal ingredients (Zn, Pb, Hg, Cu, Fe, S), meeting RDT F-7-3T requirements and is certified non-toxic.
- Ideal for use on stainless steel, petrochemical and refineries, energy power plants, desalinization plants, transportation infrastructure and aerospace applications.
- Dries within minutes, is permanent once dry and virtually odourless.
- Removable from non-porous surfaces with alcohol or lacquer thinner.
- Recommended for clean, dry surfaces.
-  EU CLP safety label:
WARNING: Causes skin irritation. Causes serious eye irritation.



SPECIFICATIONS

Art. nr.	XSC-LH#..	Working temp.	-40°C - 100°C
Packaging	12/432	Ink type	Pigment solvent-based ink
		Diameter	12 mm
		Size	135 mm

XSC-LH#RT



LOW HALOGEN PAINT MARKER

Paint Marker without corrosion factors!

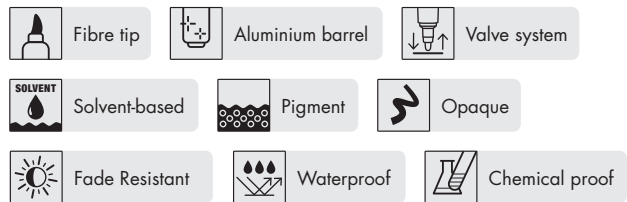
Liquid paint marker with opaque ink without corrosion factors. Ideal for industries and environments where corrosion is a concern, such as petrochemical and refineries, energy power plants, desalination plants, transportation infrastructure and aerospace.

Shown in actual size



PROPERTIES

- Detectable Halogen (Br, Cl, I, F) is less than 200 ppm and metals (Lead, Copper, Zinc, Mercury, Iron) & sulphur are less than 300 ppm
- Usable on most surface.
- Suitable on most surfaces, such as stainless steel.
- Quick drying and permanent once dry.
- Features a durable aluminium barrel, made to withstand abuse during extreme industrial use.



SPECIFICATIONS

Art. nr.	XPMKB-LH#..	Working temp.	5°C - 40°C
Packaging	12/576	Ink type	Pigment solvent-based ink
		Line width	2 mm (medium)
		Size	140 mm

XPMKB-LH#



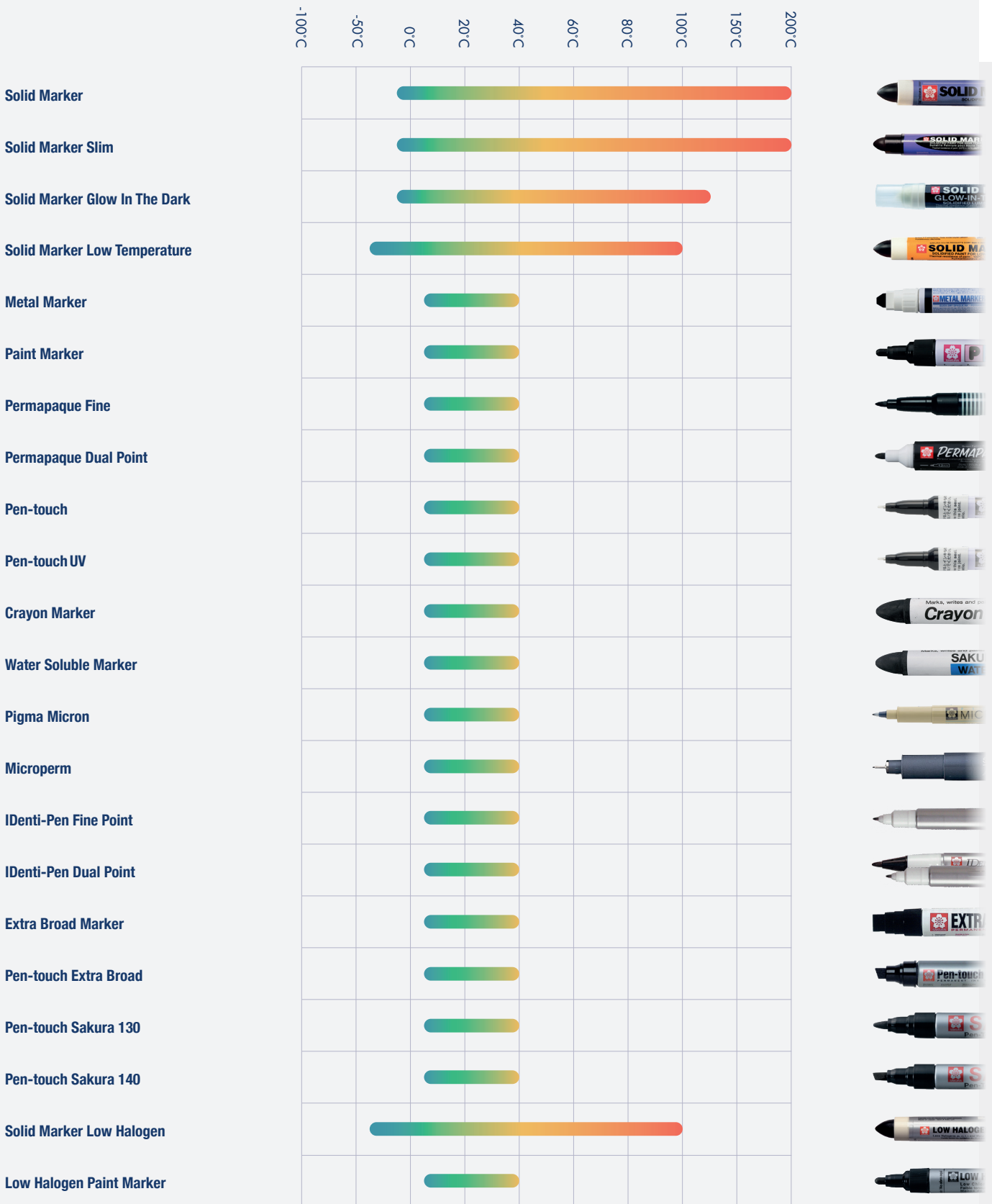
APPLICATION MATRIX

	METAL (ferrous)	METAL (stainless steel)	GLASS	PLASTICS	STONE	WOOD	RUBBER	CARDBOARD	IN WATER	
Solid Marker	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	
Solid Marker Slim	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	
Solid Marker Glow In The Dark	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	
Solid Marker Low Temperature	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	
Metal Marker	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙		
Paint Marker	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙		
Permapaque Fine	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙		
Permapaque Dual Point	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙		
Pen-touch	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙		
Pen-touch UV	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙		
Crayon Marker	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙		
Water Soluble Marker	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙		
Pigma Micron								⊙		
Microperm	⊙	⊙	⊙	⊙	⊙	⊙		⊙		
IDenti-Pen Fine Point	⊙	⊙	⊙	⊙	⊙	⊙		⊙		
IDenti-Pen Dual Point	⊙	⊙	⊙	⊙	⊙	⊙		⊙		
Extra Broad Marker	⊙	⊙	⊙	⊙	⊙	⊙		⊙		
Pen-touch Extra Broad	⊙	⊙	⊙	⊙	⊙	⊙		⊙		
Pen-touch Sakura 130	⊙	⊙	⊙	⊙	⊙	⊙		⊙		
Pen-touch Sakura 140	⊙	⊙	⊙	⊙	⊙	⊙		⊙		
Solid Marker Low Halogen	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	
Low Halogen Paint Marker	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙		

⊙ Recommended

⊙ Possible to use

TEMPERATURE MATRIX



TECHNICAL DETAILS

MARKER AND INK MATRIX

CHARACTERISTICS	PROPERTIES										
OPAQUE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TRANSPARENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DYE STUFF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PIGMENT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
WAX BASED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WATER-BASED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SOVENT BASED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CRAYON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SOLID INK	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RESERVOIR SYSTEM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VALVE ACTION SYSTEM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLASTIC BARREL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ALUMINIUM BARREL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLASTIC NIB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIBRE NIB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ROUGH AND DIRTY SURFACES	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MULTIPLE SURFACES	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
WASHABLE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STRONG BOND	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
QUICK DRYING	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
WATERPROOF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CHEMICAL PROOF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FADE RESISTANT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Solid Marker



Solid Marker Slim



Solid Marker Glow In The Dark



Solid Marker Low Temperature



Metal Marker



Paint Marker



Permapaque Fine



Permapaque Dual Point



Pen-touch



Pen-touch UV



Crayon Marker



Water Soluble Marker



JAPANESE INNOVATION IN MARKING & WRITING

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