



## Product Information Bulletin

64 Outwater Lane, Garfield, NJ 07026 Ph: 973-340-7889 | Fax: 973-340-7809

# System #4 High Temp. Pipe Markers (Wrap Around / Strap On)

## High Temp. Markers

### Compliance:

- ANSI / ASME A13.1-2015 "Scheme for the Identification of Piping Systems"
- ANSI Z535.1 "Safety Color Code"
- NFPA 99 Health Care Facilities Code
- **LEED Compliance:** This product is in compliance with the Standards set forth by the South Coast Air Quality Management District (SCAQMD) Rule #1168 and the Green Seal Standard, GS-36 for Commercial Adhesives pertaining to Volatile Organic Compounds (VOC). The adhesive backing on this product contains < 4.4 grams / Liter VOC.

### Material:

Sizes 4A, 4B, 4E and 4F are constructed using a 5 mil polyester with a 1 mil polyester overlam. These markers are affixed to themselves with a clear high performance Tedlar sealing strip. Sizes AR4B, AR4E and AR4F offer 360° visibility.

Sizes 4G and 4H are constructed using a 2 mil (.002) polyester with a 1 mil (.001) acrylic adhesive. This marker is then mounted to a .032 thick high temperature white aluminum carrier. Size AR4H is secured to pipes using stainless steel strapping or nylon straps. (S.S. Strapping & nylon straps are sold separately)

### Use:

Identify piping systems of industrial environments that are expected to reach higher temperatures or high exposure to chemicals. Arrows & legends are printed repeatedly in opposite directions allowing the marker to be applied in any direction achieving proper reading while indicating pipe content flow.

### Chemical Resistance

- C1-10 Alkanes:** Good
- Water:** Excellent
- 10% Caustic:** Excellent
- 50% Caustic:** Good
- Methanol:** Excellent
- Hydrochloric Acid:** Excellent
- Fuel Oil:** Excellent
- Acetic Acid:** Good
- Acetone:** Good
- Abrasion Resistance:** Good

**Surface Preparation:** None  
**Outdoor Durability:** 5 to 8 years  
 Mid Continental US

**Service Temp:** -40°F to 248°F  
 (-40°C to 120°C)

**Storage Stability:** Indefinite shelf life at conditions of 70°F (21°C) and 60% RH.



**1 Wrap Around Markers**  
 (Styles 4A, 4B, 4E & 4F)  
 With Clear Adhesive Strip



**2 Strap On Marker**  
 (Styles 4G & 4H)  
**On Aluminum Carrier**

### SIZE CHART

MARKER STYLE	OUTSIDE PIPE DIAMETER	MARKER WIDTH	CHARACTER SIZE
4A*	1/2" - 1" (13 - 25 mm)	8" (203 mm)	1/2" (13 mm)
4B*	1-1/8" - 2-3/8" (29 - 60mm)	8" (203mm)	3/4" (19mm)
4E*	2-1/2" x 4-3/4" (64 - 111mm)	12" (305mm)	1-1/4" (32mm)
4F*	5" - 7-7/8" (127 - 200mm)	12" (305mm)	1-1/4" (32mm)
4G**	8" - 10" (203 - 254mm)	24" (610mm)	2-1/2" (64mm)
4H**	Over 10" (Over 254mm)	32" (813mm)	3-1/2" (89mm)

\* Supplied with clear high performance sealing strip.  
 \*\* Strap on mounting method (S.S. strapping & nylon ties sold separately)

### STANDARD COLORS

Flammable & Oxidizing Fluids	Potable, Cooling, Boiler Feed, Waters
Compressed Air	Fire Quenching Fluids
Toxic, Corrosive Fluids	Combustible Fluids
NFPA 99 Colors	NFPA 99 Colors
NFPA 99 Colors	NFPA 99 Colors
NFPA 99 Colors	NFPA 99 Colors

\* New 2015 color classification

DATE: / /

JOB: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_



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### SYSTEM #4 PIPE MARKER CLEAR POLYESTER OVERLAMINATE

- 1.0 mil clear polyester has excellent abrasion, humidity, chemical and solvent resistance
- Protects the underlying graphics from harsh environmental conditions
- Provides a high-gloss appearance to printed graphics
- Adhesive exhibits good clarity and cold-flow properties, resulting in good wet-out performance

PRODUCT DATA	VALUE	TEST METHOD		
<b>Physical Properties</b>				
Thickness (Mils[microns])	Film	1.0 (25) +/- 10%	ASTM D 3652 (Modified for use with non-tape products)	
	Adhesive	0.9-1.0 (23-25) +/- 0.1 (3)		
	Liner	1.0 (25) +/- 5%		
Dimensional Stability (%)	No Shrinkage Observed	Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C)		
<b>Adhesion Properties</b>				
Ultimate Peel from	Average		ASTM D 903 (Modified for 72 hour dwell time)	
	Oz/In	(N/m)		
	Acrylic	45		(495)
	Glass	29		(319)
	Metal	41		(451)
	Polyester	43		(473)
	Polyethylene	24		(264)
	Polyethylene Corona Treated	35		(385)
	Polypropylene	5		(55)
	PVC	46		(506)
	Stainless Steel	34		(374)
	Styrene	44		(484)
	Expected Shear			ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Room Temp (hours)	25			
Tack (gm/sq cm)	320	ASTM D 2979		
Service Temperature Range	-40°F to 248°F (-40°C to 120°C)			
Minimum Application Temperature	50°F (10°C)			
Storage Stability	Two years when stored at 70°F (21°C) and 50% RH			

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