



# MS-478 Self-Adhesive Pipe Markers & Labels

## Technical Data

**PLANT AIR**

**GLYCOL RETURN**

### Description

MS-478 self-adhesive pipe markers and labels are manufactured from premium grade polyester with a permanent pressure-sensitive acrylic adhesive. They are used to provide line service designations, system color-coding or various labeling needs. Flow directional arrow tape or individual arrow markers are used with pipe markers to indicate direction of flow. MS-478 markers are available in a variety of standard and custom colors. To extend service life, optional MS-1000 over-lamination may be added MS-478 contains no PVC (Polyvinyl Chloride).

### Physical and Chemical Characteristics

<b>Base Material:</b>	Premium-grade Polyester
<b>Material Thickness:</b>	0.002" (0.051 mm)
<b>Service Temperature:</b>	-50°F to 250°F (-45°C to 121°C)
<b>Application Temperature:</b>	+32°F (0°C)
<b>Chemical Resistance:</b>	Good
<b>Water Resistance:</b>	Excellent
<b>Expected Outdoor Durability:</b>	Indoor Use Only
<b>Storage Durability:</b>	Up to 2 Years
<b>Abrasion Resistance:</b>	Good
<b>Mounting:</b>	Permanent pressure sensitive acrylic adhesive backing
<b>Finish:</b>	Semi-Gloss
<b>Text Height:</b>	Designed to meet ANSI & ASME Standards (See chart)
<b>Typical Sizes:</b>	Designed to meet ANSI & ASME Standards (See chart)
<b>Standard Colors:</b>	Designed to meet ANSI & ASME Standards (See chart)
<b>Options:</b>	Custom Sizes Available
<b>Chemical Table:</b>	Acid Resistance: Good Alkalis Resistance: Good Salts Resistance: Good

### Label Sizes and Letter Heights

Pipe Diameter (Including insulation)	Marker Size	Marker Style	Color Field	Text Height
3/4" – 2-3/8"	1" x 8"	A	8" long	3/4"
2-1/2" – 6-3/4"	2-1/4" x 13"	B	13" long	1-3/4"
6-7/8" – 10"	4" x 24"	C	24" long	2-1/2"
Over 10"	4" x 32"	D	32" long	3-1/2"

\*Individual arrow markers are the same width and one-half the length of the pipe markers

Information on physical and chemical characteristics is based on tests we believe to be reliable. The values are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material for their specific application.

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Designation of Colors (ASME A13.1-2023 & ANSI Z535-2017)

Designation of Colors — ASME A13.1-2023 & ANSI Z535-2017 Standards		
Classification	Color Scheme	
<b>Defined Applications</b>		
Firefighting	White text on red	Sample
Toxic or corrosive	Black text on orange	Sample
Flammable, combustible, or oxidizing	Black text on yellow	Sample
Steam; or steam condensate, boiler feedwater, or other hot water	Black text on gray	Sample
Potable, cooling, or other cold or tepid water	White text on green	Sample
Compressed air	White text on blue	Sample
<b>Undefined Applications</b>		
Defined by user	White text on purple	Sample
Defined by user	Black text on white	Sample
Defined by user	White text on brown	Sample
Defined by user	White text on black	Sample

Designation of Colors (ANSI/ASME A13.1-1996)

Designation of Colors — ANSI/ASME A13.1-1996 Standards		
Classification	Color Scheme	
<b>Materials Inherently Hazardous</b>		
Flammable or Explosive, Chemically Active or Toxic, Extreme Temperature or Pressures, Radioactive	Black text on yellow	Sample
<b>Materials Inherently Low Hazard</b>		
Liquid or Liquid Admixture (non-hazardous materials)	White text on green	Sample
Gas or Gaseous Admixture (non-hazardous materials)	White text on blue	Sample
<b>Fire Quenching Materials</b>		
Water, Foam, CO2, Halon, etc.	White text on red	Sample

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