Marking Services Incorporated®

MS-478 Self-Adhesive Pipe Markers & Labels with MS1000

Technical Data

Description

MS-478 UV self-adhesive pipe markers and labels are manufactured from premium grade polyester with protective MS1000 overlaminate and 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.

Physical and Chemical Characteristics

Base Material:	Premium-grade Polyester w/ MS1000 Overlaminate	
Material Thickness:	.003” (.076 mm)	
Service Temperature:	-50°F to 250°F (-45°C to 121°C)	
Application Temperature:	+32°F (0°C)	
Chemical Resistance:	Excellent	
Water Resistance:	Excellent	
Expected Outdoor Durability:	Excellent (5+ Years)	
Storage Durability:	Up to 2 Years	
Abrasion Resistance:	Very Good	
Mounting:	Permanent pressure sensitive acrylic adhesive backing	
Finish:	Gloss Surface	
Text Height:	Designed to meet ANSI & ASME Standards (See chart)	
Typical Sizes:	Designed to meet ANSI & ASME Standards (See chart)	
Standard Colors:	Designed to meet ANSI & ASME Standards (See chart)	
Options:	Custom Sizes Available	
Chemical Table:	Acid Resistance: Good Alkalis Resistance: Good Salts Resistance: Good	Acetone: Good Isopropyl Alcohol: Excellent De-Ionized Water: Excellent

Label Sizes & Letter Heights

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

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

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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	
Defined Applications		
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
Undefined Applications		
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	
Materials Inherently Hazardous		
Flammable or Explosive, Chemically Active or Toxic, Extreme Temperature or Pressures, Radioactive	Black text on yellow	Sample
Materials Inherently Low Hazard		
Liquid or Liquid Admixture (non-hazardous materials)	White text on green	Sample
Gas or Gaseous Admixture (non-hazardous materials)	White text on blue	Sample
Fire Quenching Materials		
Water, Foam, CO2, Halon, etc.	White text on red	Sample

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