



SMARK WM - DR

The WM-DR Heat Shrinkable Wire Markers are made of flame retardant, semi-rigid and diesel oil resistant heat shrinkable polyolefin tubing. Especially suitable for railways and complies with SNCF requirements.

Dimensions

Size, Inches	Size, mm	Minimum ID, as supplied	Minimum ID, recovered	Recovered wall thickness, mm
1/8	3.2	3.2	1.6	Nom. 0.50
3/16	4.8	4.8	2.4	Nom. 0.55
1/4	6.4	6.4	3.2	Nom. 0.55
3/8	9.5	9.5	4.8	Nom. 0.60
1/2	12.7	12.7	6.4	Nom. 0.40
3/4	19.1	19.1	9.5	Nom. 0.46
1	25.4	25.4	12.7	Nom. 0.50
1 1/2	38.1	38.1	19.0	Nom. 0.65
2	50.8	50.8	25.4	Nom. 0.65

Physical

Properties	Test Method	Typical value
Tensile strength	ASTM D 638	≥ 15 MPa
Elongation at break	ASTM D 638	≥ 375%
Longitudinal change	SAE-AMS-DTL-23053	-5 %
Specific gravity	ASTM D 792	1.25 g/cm ³
Secant Modulus	ASTM D 882	Min. 173 MPa

Electrical

Properties	Test Method	Typical value
Dielectric strength	ASTM D 876	≥ 25 kV/mm
Volume resistivity	ASTM D 876	≥10 ¹⁵ Ω/cm

Standard colours

Yellow, white

Blue, red, black, orange, light green on request

Material

Cross linked polyolefin, shrink ratio 3:1

Operating temperature

-55°C to +135°C

Minimum shrink temperature

>90°C

Specifications

SAE-AMS-DTL-23053/6 class 1 (except sizes)

SNCF specification NF F00-608

Notes:

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We reserve the right to modify characteristics with the aim of improving the product and adapting it to the requirements of the market.

Chemical

Properties	Test method	Typical value
Fluid resistance (after immersion 23°C x 24h)	SAE-AMS-DTL-23053	Pass
Water absorption	ASTM D 570	0,25%
Flammability	ASTM D 2671	Pass
Diesel oil resistance	NF F00-608 (V=100±5mm/min)	Pass
Diesel oil resistance	NF F00-608	Pass
Mineral oil resistance	NF F00-608	Pass
Ozone resistance	NF F00-608	Pass

Thermal

Properties	Test method	Typical value
Heat shock (250°C x 4h)	SAE-AMS-DTL-23053	No dripping, cracking or flowing, pass
Elongation after heat ageing (136°C x 168h)	ASTM D 638	≥ 300%
Copper corrosion (175°C x 16h)	SAE-AMS-DTL-23053	Pass
Low temperature flexibility (-40°C x 4h)	SAE-AMS-DTL-23053	Pass

Carrier liner

White, non-coated, medium range thermal sensitive paper cardstock.
Thickness 185 ± 10 µm. Width 109mm ± 0.5mm.

Adhesive backing

Clear, polyethylene film coated with an acrylic-based pressure sensitive adhesive.
Thickness 0.10mm. Width 72/85mm.

The products are supplied on a thermal sensitive cardstock liner converted into a ladder construction offering superb organization of the markers. The cardstock liner is die-cutted with cavities where into the sleeves are applied, supported by a backing adhesive.



Printer recommended

CAB A4+M 300dpi printer

Applications

Common uses include marking, insulation, Wire bundling and mechanical protection

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