

MR®76S, Magnetic Powder Suspension –Black



MR®76S is a highly sensitive oil-based magnetic particle suspension aerosol which serves to indicate dark, clear, strong background-free cracks when performing coloured magnetic particle inspection.

Pack Size Aerosol 400ml

Additional information

PROPERTIES	<p>Appearance – black oily liquid</p> <p>Chemical Composition – mixture of oil, additives and black magnetic powder Basis – hydrocarbon</p> <p>Odour – characteristic</p>
APPROVALS	<p>ASME Code V, Art. 7</p> <p>DIN ISO 9934 (BS 5044)</p> <p>ASTM E 709</p> <p>RCC-M</p> <p>PMUC (EDF)</p> <p>AMS 2641</p> <p>AMS 3041</p> <p>AMS 3043</p> <p>ASTM E1444/1444M</p>
FAMILY TESTING	<p>Contrast Paint – MR72 (all versions), MR721, MR725, MR727, MR727, MR72LS</p> <p>Cleaner – MR79, MR71</p> <p>Magnetic Ink (visible) – MR76S (all versions)</p>
SEDIMENT	<p>Version A – 1.2 – 2.4 ml/100ml (1h) according to ASME</p> <p>Version D – 0.3 – 0.4 ml/100ml (1h)</p> <p>Version S – 0.4 – 0.8 ml/100ml (1h) according to Produits et Matériaux Utilisables en Centrales</p> <p>Version W – 0.8 – 1.2 ml/100ml (1h)</p>
PARTICLE SIZE	<p>1 – 3 µm</p>
RECOMMENDED USAGE	<p>NDT Method – Magnetic Particle Testing</p> <p>Area Coverage ~ 6 sq m (400ml nett Aerosol can)</p> <p>Usage Temperature – 41°F to 131°F / +5 °C to +52 °C</p> <p>Storage Temperature – 41°F to 113°F / +5 °C to +45 °C</p>

Features

- Super wetting technology (SWT)
- Excellent retentivity of magnetic particle on vertical jobs
- Dark black, clear indications under white light
- Heavy particle build up, excellent particle mobility
- Free of aromatics, oil-based
- Controlled application with wide spray pattern
- Low-odour
- Low-toxicity
- Toluene free

How it Works

In Magnetic Particle Inspection (MPI), contrast paint is a type of paint that is used to provide a contrasting background to the magnetic particles that are used to detect surface and near-surface defects in ferromagnetic materials. The white contrast paint is applied to the surface of the test piece to enhance the visibility of the magnetic particle indications.

The white contrast paint works by providing a contrasting background colour to the dark magnetic particle indications, which makes them more visible to the inspector. This is particularly useful in situations where the background colour of the test piece is similar in colour to the magnetic particles being used, which can make it difficult to see the magnetic particle indications.