



# Magnetic Particle Testing

Product information

MR<sup>®</sup> 214 Magnetic powder composition



## MR<sup>®</sup> 214 Magnetic powder composition

black, concentrate 1:25 to 1: 100, water suspendable for wet testing at Magnetic Particle Testing acc. to EN ISO 9934-1

### General appearance and composition:

- Black magnetic powder ferromagnetic particles, suspendable in water
- Powder already includes additives: wetting agent, defoamer and corrosion inhibitor
- Particle size  $d_a = 6-8 \mu\text{m}$
- Processing temperature +10 to +50 °C
- Dilution: 15-20 g / L in water

Dilution	Sediment / 100 ml (0,5 h)	Please note
1:100	ca. 0,50–0,60 ml	--
1:50	ca. 1,20–1,30 ml	corresp. with ASTM E1444/1444M
1:25	ca. 2,35–2,45 ml	corresp. with ASTM E1444/1444M

→ Applications with other dilutions are possible

### Application:

- Remove tinder, rust and other contaminations from surface in a suitable manner
- Dilute 15-20 g / L in water
- Spray a thin film MR<sup>®</sup>-White contrast paint (layer thickness max. 40  $\mu\text{m}$ ) on the surface and allow to dry for a few seconds
- During magnetization (e.g. with a MR<sup>®</sup>-Hand yoke) spray the preparation on the surface
- Discontinuities will appear as black magnetic particle indications on the white surface
- After documentation the surface can be cleaned with MR<sup>®</sup> 71 Paint Remover

### Minimum shelf life:

- will keep for a minimum of 4 years, stored at room temperature

### Pack sizes:

- 1 kg