1 Grey

Visible Dry-Method Magnetic Particles



MAGNAVIS® 1 Grey is a ready-to-use, dry method, colour-contrast magnetic powder. Used for visible light flaw detection, it detects surface and slightly subsurface discontinuities in ferrous metals.

1 Grey can be applied from a powder blower or shaken from a bottle during magnetisation, and blown off while current is still being applied. On material with a high magnetic retentivity, indications can still be formed after the current has been turned off.

FEATURES

- Sharp, color-contrast indications on dark backgrounds
- Ready-to-use
- Good particle buildup for quick detection
- Highly refined for optimal particle shape and size combination
- Minimal dust build-up
- Does not require a UV light or darkened inspection area

APPLICATIONS

Defect location: surface and slightly subsurface

Ideal for:

- Detecting medium, large and coarse discontinuities
- Weld testing
- Forgings
- Castings
- Field testing
- Spot inspections
- In-service inspections
- Large parts
- Dark backgrounds
- Extreme temperatures
- Rough/textured surfaces

Ideal for:

- Inclusions
- Seams
- Shrink cracks
- Tears
- Laps
- Flakes
- Welding defects
- Grinding cracks
- Quenching cracks
- Fatigue cracks

SPECIFICATION COMPLIANCE

- AMS3040
- ASME BPVC-V
- ASTM E709
- ASTM E1444/E1444M
- MIL-STD-2132
- NAVSEA T9074-AS-GIB-010/271

COMPOSITION

Selected magnetic powders and pigments.

1 Grey

PRODUCT PROPERTIES

Form	Free-flowing powder
Colour	Grey/off-white
Upper temperature limit*	390°C
SAE sensitivity	7
Average particle size	80 µm

* This limit does not mean that the material will not form indications above the specified temperatures. However, particles used at elevated temperatures for an extended period of time may alter in colour, sinter together or emit smoke. Particles heated to 480°C or passed through a flame will smoulder or spark.

Like all Magnaflux materials, 1 Grey is closely controlled to ensure batch-to-batch consistency, optimum process control and inspection reliability

USER RECOMMENDATIONS

NDT Method	Magnetic Particle Testing, Visible, Dry Method
Storage temperature	10°C to 30°C

INSTRUCTIONS FOR USE

Using a powder spray bulb, plastic squeeze bottle, or a powder blower, apply the magnetic powder while the magnetising current is on.

If there is considerable background build-up, gently blow the excess material off while the current is flowing.

If the material being tested has a high retentivity, surface defects can be detected after the current shot.

PACKAGING AND PART NUMBERS

5 Kg 057C005

Packaging for this product is made from recycled materials and is recyclable.

HEALTH AND SAFETY

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the Safety Data Sheets, which are available at **www.magnaflux.eu**