

MAGNAVIS[®] 1 GREY, 3A BLACK, 8A RED



Dry Magnetic Particles

General description

MAGNAVIS[®] dry magnetic powders are ready-to-use, dry method, colour-contrast magnetic powders. The three different colours of powder are designed to produce effective contrast on different coloured backgrounds.

Applications

MAGNAVIS dry powders are typically used to locate surface and slightly subsurface defects in welds, large forgings and castings, and where rough surfaces are encountered.

Composition

Selected magnetic powders and pigments.

Typical Properties (not a specification)

| Property | 1 Grey, 3A Black, 8A Red |
|-------------------------|--------------------------|
| Form | Free-flowing powder |
| Particle size (average) | 80 µm |
| SAE sensitivity | 7 |
| Storage temperature | 10°C to 30°C |
| Usage temperature | See table below. |

General Method of Use

- Using a powder spray bulb, plastic squeeze bottle, or a powder blower, apply the MAGNAVIS 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.

Specification Compliance

| Specification | 1 Grey, 3A Black, 8A Red |
|-----------------------------|--------------------------|
| AMS3040 | ✓ |
| ASME B & PV Code, Sec V | ✓ |
| ASTM E709 | ✓ |
| ASTM E1444/E1444M | ✓ |
| MIL-STD-2132D | ✓ |
| MIL-STD-271F | ✓ |
| NAVSEA T9074-AS-GIB-010/271 | ✓ |




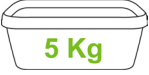
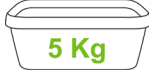
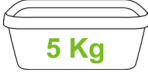
Like all Magnaflux materials, MAGNAVIS dry powders are closely controlled to ensure batch-to-batch consistency, optimum process control and inspection reliability.

| Powder | Description | Upper temperature limit |
|----------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1 Grey | A grey or off-white coloured powder which produces sharp colour contrast indications on dark backgrounds. | 390°C * |
| 3A Black | A 'dustless' blue-black powder which produces clear sharp indications on shot-peened or sandblasted surfaces with light backgrounds. | 315°C * |
| 8A Red | A dark-red-coloured iron powder which provides a strong contrast on most surfaces and coloured backgrounds. | 315°C * |

* These limits do 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.

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Availability and Part Numbers

| 1 Grey | 3A Black | 8A Red |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|  057C004 |  057C008 |  057C066 |
|  057C005 |  057C057 |  057C067 |

Health and Safety

Read the relevant Safety Data Sheet for this product before use. Safety Data Sheets are available on request from your Magnaflux distributor or via the Magnaflux website:

www.eu.magnaflux.com

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