

MAGNAFLUX®

1 Grey, 3A Black, 8A Red

Dry Magnetic Particles

General Description

1 Grey, 3A Black and 8A Red MAGNAFLUX powders are ready to use, free flowing general purpose, dry method, colour contrast magnetic powders. These powders are used to locate surface and slightly subsurface discontinuities in ferrous structures.

1 Grey is a grey or off-white colour powder, which produces sharp colour contrast indications on dark backgrounds.

3A Black is a "dustless" blue-black powder ideally suited to produce clear sharp indications on shot peened or sandblasted surfaces with light backgrounds.

8A Red is a dark red coloured iron powder which provides a strong contrast on most surfaces and coloured backgrounds.

Composition

The dry magnetic powders are composed of selected magnetic powders and pigments.

Application

Typical applications include welds, large forgings and castings, and where rough surfaces are encountered

Typical properties (Not a specification)

Property	1 Grey	3A Black	8A Red
Particle Size (Mean)	180 microns	180 microns	180 microns
Colour	Light Grey	Blue / Black	Dark Red
Physical Form	Free flowing powder	Free flowing powder	Free flowing powder
SAE Sensitivity	7	7	7
Upper Temperature Limit *	390°C	315°C	315°C

**Temperature limits are not intended to imply that the material will not form magnetic particle indications above the specified temperatures. However, particles at elevated temperatures for a period of time may be altered in colour, sintered together or emit smoke. Particles heated to 480°C or passed through a flame will smoulder or spark.*

Like all MAGNAFLUX materials, these dry magnetic powders are closely controlled to provide unique batch to batch consistency & uniformity to assure optimum process control and inspection reliability.

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Product Data Sheet

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Method of Use

Our dry method, non-fluorescent magnetic particles may be dispensed by the Powder Spray Bulb, a plastic squeeze bottle, or a powder blower.

The powders must be applied while the magnetising current is on. If there is considerable background build-up, the excess material can be gently blown off while the current is flowing. Should the material being tested have a high retentivity, surface discontinuities can be detected after the current shot.

Specification compliance

ASME B & PV Code, Sec V ASTM E 1444 ASTM E-709 AMS-3040

The Dry powders are available in 1 Kg plastic pails

1 Grey Part No 057C004

3A Black Part No 057C008

8A Red Part No 057C066

Safety

Safety data sheets for these products are available on request.

Avoid breathing product dust when handling.

Avoid contact with skin and eyes.

Wear suitable gloves and eye protection if there is a risk of skin or eye contact.

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Issue Date : 14/12/06 TDS No : 1 Grey, 3A Black, 8A Red Rev No 00

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