



# MAGNAVIS #1 GRAY

## DRY MAGNETIC PARTICLES



### General Description

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

### Applications

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

### Composition

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

### Typical Properties (not a specification)

Property	# 1 Gray
Form	Free flowing powder
Colour	Light grey
Particle size (average)	80 microns
SAE sensitivity	7
Upper temperature limit*	390 °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 Magnavis #1 Gray dry magnetic powders are closely controlled to provide unique batch to batch consistency and uniformity to assure optimum process control and inspection reliability.

### Benefits

- ✓ Ready to use
- ✓ Coloured powder to suit contrast on dark backgrounds

### 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

Specification	# 1 Gray
AMS 3040	✓
ASME B & PV Code, Sec V	✓
ASTM E-709	✓
ASTM E-1444	✓

### Availability

#1 Gray is available in 1 Kg containers, part number F03001

### Health and Safety

- Safety Data Sheets for this product are available on request from your Magnaflux distributor or via the Magnaflux website ([www.in.magnaflux.com](http://www.in.magnaflux.com)).
- Read the relevant Safety Data Sheets before use.

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