

# Product Data Sheet

**MAGNAVIS**

## 1 Gray / 2 Yellow/ 3A Black / 8A Red Dry Method Non-fluorescent Magnetic Powders

### General Description:

#1 Gray, #2 Yellow, #3A Black and #8A Red are ready to use, free flowing, general purpose, dry method, color contrast magnetic powders. These powders are used to locate surface and slightly subsurface discontinuities in ferrous materials.

- #1 Gray is a gray or off-white color powder, which produces sharp color contrast indications on dark backgrounds.
- #2 Yellow is a pale yellowish powder which is ideal for dark surfaces.
- #3A Black is a "dustless" blue-black powder ideally suited to produce sharp indications on shot peened or sandblasted surfaces with light backgrounds.
- #8A Red provides a strong contrast on most surfaces and colored backgrounds.

### Composition:

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

### Application:

Typical applications include welds, large forgings and castings.

### Typical Properties (Not a Specification):

	<b>#1 Gray</b>	<b>#2 Yellow</b>	<b>#3A Black</b>	<b>#8A Red</b>
Particle Size (average)	180 microns	180 microns	180 microns	180 microns
SAE Relative Sensitivity	8	8	8	8
Temperature Limit*	0° - 750°F	0° - 500°F	0° - 600°F	0° - 600°F

*\*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 color, sintered together or emit smoke. Particles heated to 900+F or passed through a flame will smolder or spark.*



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## Method of Application:

Our dry method, non-fluorescent magnetic particles may be dispensed by the Powder Spray Bulb (MAGNAFLUX P/N 501232), a plastic squeeze bottle, or a powder blower. The powders must be applied while the magnetizing 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 709; ASTM E 1444; NAVSEA 250-1500-1; NAVSEA T9074-AS-GIB-010/271; MIL-STD-2132; AMS-3040;

## Container Size:

10 pound jar; 45 pound plastic pail



#1 Gray, #2 Yellow, #3A Black, #8A Red Dry Powders

Revised 8/8/2011



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Berg Engineering & Sales Company, Inc.

1-847-577-3980  
[info@BergEng.com](mailto:info@BergEng.com)