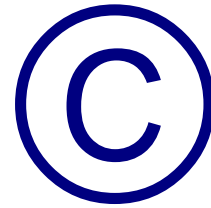


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TECHNICAL BULLETIN #178

MAGNETIC DUSTING POWDERS No. 60 & 70 SERIES

The #60 & #70 Series of Dusting Powders are magnetic powders used for *dry* method magnetic particle inspection. These powders are highly refined to detect minute discontinuities and slight subsurface discontinuities in rough surfaces such as bridges, billets, or forgings.

Properties

Particle Colors: The 60 Series (natural light only): #61 – Gray; #63 – Red; #66 – Yellow; #68 – Blue. The 70 Series (natural light and fluorescent light): #73 – Red in natural light and fluorescent red in black light; #75 – Yellow-green in natural light and fluorescent yellow-green in black light.

Specific Gravity: 2.7 to 3.0 g/ml

Particle Size: Not less than 98% passage through U.S. Standard No. 80 mesh sieve (180 μ m) as defined in AMS 3040.

Sensitivity: The Dusting Powders (60 & 70 Series) shows a minimum of 8 lines on an AISI Ketos tool steel ring (as defined in SAE AS5282), set on a 1-inch diameter copper bar, magnetized with 2500 A of direct current.

Particle Certification: Particles meet all relevant specifications, including but not limited to MIL-STD-1949, AMS 3040, MIL-STD-271, NAVSEA 250-1500-1, NTR-1E. Certification is included with each shipment.

Directions for use

The 60 series and 70 series Dusting Powders are applied to the part or structure with a powder spray bulb or powder blower. As the current is being applied, dust the Powder over the part. If excessive Powder is visible, gently blow the extra Powder off.

January, 2001