



Western Instruments

Established 1965



DUBL-CHEK
PENETRANT PROCESS | **SHERWIN**
INCORPORATED

Sherwin's *Black Oxide No. 1* is a black magnetic oxide powder mixed with a light oil to form a suspension in a convenient to use aerosol can. This Visible Wet Method Particle is used to find microscopic cracks in ferrous metals during magnetic particle inspection (MPI). *Black Oxide No. 1* is highly sensitive for inspecting critical parts, where the particles in suspension collect at, and mark indications. *Black Oxide No. 1* is most often used with White Contrast Point (CP-2), where the technique is called *Black on White*.

Wet Method Particles are far more precise than dry method particles, but also form an easy to read flaw image. *Black Oxide No. 1* is widely used during manufacturing and preventive maintenance inspections in such industries as Aerospace, Forging, Casting, Machining, Automotive, Power Generation, and Mobile Equipment. *Black Oxide No. 1* is widely used during;

- Pressure Vessel Turn-arounds for stress and welding cracks.
- Pipeline Digs to find Stress Corrosion Cracking.

Applicable Specifications

ASTM-E-1444
ASTM-E-709AMS-3042
ASME Section V
AMS 3043
ISO 9934
NAVSEA 271-97
MIL-STD-1949 E

Competitor Equivalent

Ardrox (Chemetall) 8301
Magnaflux 7HF

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