



BLACK-OXIDE

Technical Data Sheet

Description: **Black-Oxide** is a black magnetic powder suspended in highly refined light petroleum oil. The particles respond to magnetic leakage fields created by cracks and other flaws. They rapidly collect at such fields producing black lines that reveal and profile flaws. **Black-Oxide** complies with low sulfur and low halogen requirements.

Chemical Properties

Color: Black particles suspended in a clear liquid
Fluorescence: None

Companion Products

CP-1 Contrast Paint CP-2 Contrast Paint

Packaging

16oz. Aerosol Cans (9 cans per case)

Storage /Shelf Life

Keep away from moisture and sunlight.
Temperature limit: 40°F to 125°F (0-50°C)
Keep the container closed when not in use.
Shelf life from invoice date: aerosol cans – 36 Months

Specifications

ASME Code NDT, Sec V AMS 3042 ASTM-E 1444
ASTM E 709

Special Features

1. Low background for assured indication visibility.
2. Particle concentration of aerosols meets requirements.
3. **Black-Oxide** can be used with both stationary and portable magnetic test equipment.
4. **Black-Oxide** can be used in the shop or in the field.
5. **Black-Oxide** spray cans offer conveniences and improve reliability since the pressure spray evenly disperses the particles in a uniform, light oil spray.

Instructions

Note: These instructions describe the basic process, but they may need to be amended by the user to comply with applicable specifications and/or inspection criteria provided by the contracting agency.



1. Clean the test surface and allow it to dry.
2. Magnetize the area to be inspected.
3. Shake spray can and spray a generous amount of **Black-Oxide** over the test surface with the magnetic equipment in contact.
4. Allow excess oil to run off the surface.
5. Inspect the surface. Collections of **Black-Oxide** particles will reveal defects at the leakage fields.
6. Clean and repeat the process; changing the magnetizing equipment by 90°.

Health & Safety

Black-Oxide is suspended in a combustible liquid. Use with adequate ventilation and away from sparks, fire, or open flames. Avoid prolonged or repeated contact with skin. Do not take internally. Consult the MSDS for more Safety and Health information.