

Sherwin BO-1 Black Oxide Magnetic Particle

Description

BO-1 is Black Oxide No.1 black magnetic oxide suspended in a highly refined light petroleum oil. The suspension responds to magnetic leakage fields created by disc.

Special Features

- A 360° valve that enables an aerosol to be sprayed upside down
- Every aerosol contains two nozzles for comfort and multiple spray patterns.
- Low background colour for assured indication visibility.
- Particles are easily agitated, fast acting and produce defined indications.
- Can be used with both stationary and portable magnetic test equipment.
- Aerosols offer convenience and improve reliability.
- More coverage for every application.

Why's Sherwin so good?

Sherwin NDT products are market leaders in quality, performance and reliability - a bold statement, but backed up by over 26 critical manufacturer approvals, including Boeing, Airbus, Rolls-Royce, Lockheed-Martin and other OEM's. Together, NDT products provide a non-destructive method of inspecting materials, parts, assemblies, equipment, surfaces and structures often referred to as the 'visible dye penetrant method' or 'colour contrast method' of inspection.

Technical Data

Color: Black

Flash Point: >95°C

Particle Size: 0.5 - 4.0 µm, with an average size of 1.5µm.

Particle Concentration: 1.2 - 2.4 ml (i.a.w AMS 3041 & AMS 3043)

Suspension Fluid: Clear highly refined light petroleum oil or water

PRODUCT NAME	Size (ml)	Ea/Pack/Carton Qty	Code
Sherwin BO-1 Black Oxide Magnetic Particle	400	1/12	SPSBO10400



COMPANION PRODUCTS	Size (ml)	Ea/Pack/Carton Qty	Code
Sherwin DR-64 Cleaner/Remover	400	1/12	SPSDR64400
Sherwin CP-2 White Contrast Paint	400	1/12	SPSCP20400

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Sherwin BO-1 Black Oxide Magnetic Particle

Instructions

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

1. Clean the test surface and allow it to dry.
2. Apply DUBL-CHEK CP-2 for background contrast, if required.
3. Magnetise the area to be inspected.
4. Ensure continuous agitation of the suspension. If using an aerosol, shake vigorously before and during inspection.
5. Apply the suspension to the test part at a distance of approximately 150mm from surface.
6. Allow the excess oil/water to run off the inspection area.
7. Inspect the surface under visible light.
8. Collections of Black Oxide No.1 particles will reveal discontinuities at the leakage fields.
9. Clean and repeat the process; changing the orientation of the magnetising direction.

Health & Safety

BO-1 packaged within an aerosol is extremely flammable. When Black Oxide No.1 is suspended in oil it forms a combustible liquid. Use with adequate ventilation and away from spark, fire or open flames. Avoid prolonged or repeated contact with skin. Do not breathe gas, fumes, vapour or spray. Consult the MSDS for more Safety and Health information.

Get medical attention if irritation develops and persists. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Storage /Shelf Life

Keep away from moisture and sunlight.
Keep the container closed when not in use.
Shelf life: 36 months (3 years) from date of manufacture.
Refer to NOT Shelf Life and Storage Recommendations for further information.

Specifications

Aerosols, particles and suspension meet or exceed industry specifications including; ASTM E1444, MIL-STD-271, NAVSEA T9074-AS-GIB-010/271, MILSTD- 1949, AMS 3041, AMS 3042, AMS 3043, AMS 2641

Sherwin DR-64 Cleaner/Remover

DR-64 Cleaner/Remover can be used in the solvent remove penetrant process and to remove CP-2 white contrast paint from part surfaces.

In the penetrant process it is a manual wipe on and wipe off material and is recommended for small areas.

DR-64 may also be used for generally cleaning oily, dirty surfaces. DR-64 is especially suitable for cleaning prior to the application of inspection penetrants. Complies with low sulfur and low halogen requirements.

Special Features

- Contains a direct spray tube for easy removal of white contrast paint.
- Can be used as a pre-cleaner for penetrant inspection evaporates completely and rapidly.
- Can be used in the penetrant and magnetic particle inspection process.

Size: 400ml.



Sherwin CP-2 White Contrast Paint

CP-2 is a specially formulated, fast drying, low odour white paint that provides a high contrast background for interpreting magnetic particle results. CP-2 enhances the visibility of indications under visible light conditions when the background material has a similar colour to the particles. When dry, CP-2 is resistant to wet suspension fluids, but is easily removed with DR-64.

Special Features

- Every aerosol contains two nozzles for comfort and multiple spray patterns.
- High contrast, fast drying and low odour.
- Aerosols offer convenience and portability.
- More coverage for every application.
- Solvent removable.

Size: 400ml.



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