

ARDROX[®] 8506

Fluorescent Magnetic Particle Fluid, Aerosol

PRIMARY APPLICATION

Ardrox[®] 8506 Fluorescent Magnetic Particle Fluid consists of finely-divided fluorescent magnetic particles, dispersed in a hydrocarbon carrier fluid. It will fluoresce brilliant yellow/green under ultraviolet radiation with a predominant wavelength of 365 nanometers. ARDROX[®] 8506 meets the requirements of AMS 3046.

Ardrox 8506 uses a hydrocarbon corresponding to AMS 2641, Type 1 Magnetic Particle Inspection Fluid with a Flash Point exceeding 93° C (method ASTM D 93)

The particles have been selected for their high magnetic response, low coercivity (to avoid coagulation), and prolonged operational life.

CHEMICAL CHARACTERISTICS

Appearance.....	Suspension of brown powder
Mean Particle Size	4 - 5 microns
Settlement.....	0.1 – 0.3%
Density at 20°C	Approximately 0.8 g/cm ³
Flash Point (Active Substance).....	>93°/c (Method ASTM D 93)

APPLICATION PROCEDURE

The surface of the components to be inspected should be cleaned prior to testing as any contamination on the component can mask any indications,

Components are magnetized using the appropriate technique, and the ARDROX[®] 8506 is applied during magnetization. Application of the spray should cease before the magnetizing source is switched off to enable the particles to migrate to the area of flux leakage.

The component surface should be inspected under UVA at a minimum output of 1,000 µwatts per cm² and a peak wavelength of 365 nanometers. The ambient light should also be less than 2 foot candles, though individual specifications may vary.

NOTES ON USE (see Safety Data Sheet)

SAFETY AND HANDLING

Prior to handling and use of any of the materials referenced in this document, the Safety Data Sheets should be read and understood by all personnel in contact with these materials.

KEEP OUT OF REACH OF CHILDREN

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STORAGE

Dry indoor storage at temperatures between 40°F and 100°F (4.4°C and 37.8°C) is recommended, away from any incompatible materials referenced in the Safety Data Sheets. All containers should be tightly closed when not in use.

SHELF LIFE

The shelf life for Ardrex 8506 is 3 years.

DISPOSAL

Any disposal of the materials referenced in this document should be in accordance with all applicable federal, state, provincial and local regulations. The process solution can contain components other than those present in the materials as supplied. Analysis of process solutions may be required prior to disposal.

Chemetall



ISO 9001/FM 93653

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