

Ardrox 8901W

Contrast aid paint for magnetic flaw detection processes

Description

ARDROX 8901W is a suspension of a white pigment in a resin base, which utilises a fast drying, flammable solvent (non-chlorinated) system to facilitate speed and ease of application.

ARDROX 8901W is used in conjunction with the ARDROX visible magnetic particle inspection processes. It provides an excellent contrasting white background when dark steels are being tested.

ARDROX 8901W provides a matt finish, free from reflections, which assists the viewing of defects. The smooth surface finish provided by this product allows the magnetic ink to remain mobile on the surface for longer, thus assisting the detection of fine defects.

Approvals

ARDROX 8901W conforms to BS 5044

Method of Use

The metal surface is first cleaned to remove rust, scale, paint or other contaminants. If water is used in the process, ensure the component is dried. The final cleaning operation should be to degrease the surface using ARDROX 5319 Non Chlorinated Solvent Cleaner, then allow it to flash dry.

ARDROX 8901W is then sprayed directly from an aerosol (ensure the aerosol is thoroughly shaken to disperse all settled white pigment – agitator balls are present in the aerosol to aid dispersion). The spare actuator button in the aerosol cap may be used to obtain an alternative spray pattern.

In the case of bulk material, it is essential to shake the container thoroughly immediately prior to use, then it may be applied by the use of any spray gun system to obtain a uniform white coating. Alternatively, the product may be applied by brush, but this method is more likely to produce uneven coverage.

The product should be applied in order to produce an even, thin coating over the surface being inspected. The coating will be dry almost immediately and the appropriate magnetising mode can be used to produce the requisite amount of magnetic flux in the component.

Where current flow or "prod" techniques are used, ensure that the contact area is not coated with **ARDROX 8901W** since it will act as an electrical insulator. If necessary, clean those areas with ARDROX 5319 Non Chlorinated Solvent Cleaner, prior to magnetisation.

Coatings of **ARDROX 8901W** are not affected by the grades of kerosene commonly used as carriers for magnetic inks.

The equipment required to produce magnetic flux in the component can vary from small, hand-held units to large, purpose-built, lathe style benches.

When the inspection has been completed, **ARDROX 8901W** is removed with ARDROX 5319 Non Chlorinated Solvent Cleaner. NOTE: The surface roughness will affect the ease of removal.

Effects on materials

When **ARDROX 8901W** is used in the prescribed manner, no significant corrosion is likely to be encountered on any ferromagnetic materials. The product will degrade the majority of plastics and rubbers.

Intending users are advised to check the compatibility of **ARDROX 8901W** with any non-metallic materials that the product may come in contact with, before use.

Equipment/tanks should be constructed of stainless steel.

Chemical and Physical Properties

Appearance : Fine dispersion of a white pigment in a colourless solvent.

Density : 0.96 g/ml at 20°C

Flash Point : Minus 50°C (Closed Cup).

These are typical values only and do not constitute a specification.

Packaging

Available in 5 litre containers and 12x300g Aerosol.

Safety, Transport and Storage Information

Please refer to the Material Safety Data Sheet.

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