

Ardrox[®] 3968

WATER-DISPLACING CORROSION INHIBITOR

1 Description

Ardrox[®] 3968 is a corrosion inhibiting, dewatering fluid which will excellently displace fresh or salt water from metal surfaces. It contains a volatile solvent and when this has evaporated, a very thin oil film remains which gives protection to the metal surface.

Approvals

| | |
|-------------------|------------------------|
| ✓ SAE | AMS 3065 (conformance) |
| ✓ CFMI | CFM56 |
| ✓ GE | SPMC 70-80-02 |
| ✓ Messier-Dowty | PCS 2800 |
| ✓ Pratt & Whitney | SPMC 124-1 |
| ✓ Rolls Royce | OMat |
| ✓ Turbomeca | TS 00800 |

Ask your Chemetall representative for a complete list of approvals

2 Physical and chemical properties

| Property | Typical Value | Unit |
|-----------------|---|------|
| Appearance | Straw brown liquid | - |
| Density | 0.800 – 0.830 at 20 °C / 68 °F | g/ml |
| Flash point | Approx. 64 °C / 147 °F | - |
| Dry film weight | Approx. 2 g/m ² (2 µm thickness) | - |

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

3 Typical use

In metal finishing operations Ardrox[®] 3968 provides an alternative to oven drying where the presence of the final thin oil film is not considered detrimental. As temporary corrosion prevention is provided, the method allows a delay between various processing systems without the danger of corrosion.

Ardrox[®] 3968 has extremely good spreading and penetrating properties and is, therefore, very suitable as an aid to freeing seized-up parts, particularly if these are wet. Due to its water displacing properties, Ardrox[®] 3968 will rapidly restore electrical equipment which has been subjected to flooding to an operative condition. Typical examples of this are electric motors, switchgear and automobile ignition systems.

The product can be used as a coating to neutralize the corrosive effects of fingerprints on metal, when applied before or immediately after handling.

4 Method of use

Ardrox[®] 3968 may be applied by any of the conventional methods such as brushing, dipping, spraying or swabbing.

Dipping tanks should be constructed with a sloping or conical bottom.

During use, water will accumulate at the bottom of the tank and should be periodically run off. Immersion times do not need to exceed five minutes and usually 2-3 minutes is adequate.

Agitation of work in dipping processes should be avoided as this will tend to emulsify the displaced water.

5 Effects on materials

The product will not affect normal paint systems and is not corrosive to copper. It may cause some swelling of rubbers if they are continually immersed. However, if a thin film is applied, the effect will be minimal and will largely disappear as the solvent evaporates.

Mild steel is a suitable material for tank construction.

6 Shelf life, storage and disposal

Please refer to the corresponding Material Safety Data Sheets for details on shelf life, storage and disposal.

7 Labor and environmental protection

Before operating the process described it is important that this complete document, together with any relevant Safety Data Sheets, is read and understood. All local and national regulations on the transport, storage, use and waste treatment of chemicals in concentrated or diluted form and as working solutions must be obeyed.

8 General Information

Chemetall supplies a wide range of chemical products and associated equipment for cleaning, descaling, paint and carbon removal, metal working and protection and non-destructive testing. Sales Executives are available to advice on specific problems and applications.

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