Ardrox® 2312

NON-CHLORINATED SILICONE RUBBER REMOVER

1 Description

Ardrox® 2312, a blend of non-chlorinated and non-aromatic solvents together with an activator, is designed for use by immersion at ambient temperatures. The product is readily water washable.

Ardrox® 2312 is designed for the rapid removal of silicone and other bonding rubbers from metal components. A typical example are compressor blades which, in gas turbine engines, are often bonded into the compressor disc using silicone rubbers. This product will also remove abradable rubber coatings which are often used in the compressor casings of gas turbine engines.

Approvals & conformances

✓ International Aero Engines	V2500
✓ Pratt & Whitney	SPOP 254
✓ Rolls Royce	CSS 235 & Overhaul Material OMat 1/142F
✓ SAE	ARP 1755, AMS 1386

Ask your Chemetall representative for a complete list of approvals.

2 Physical and chemical properties

Property	Typical Value	Unit
Appearance	Dark brown liquid	-
Density	approx. 0.85 @ 20 °C	g/ml
Flash Point	100	°C

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

3 Method of use

Ardrox® 2312 is supplied ready for use and requires no further dilution. Components to be stripped should be dry and preferably grease-free before immersing into the tank of Ardrox® 2312.

Water should not be permitted to enter tanks containing Ardrox® 2312.

Components should be totally immersed in the product until the silicone rubber has become fully softened or detached. Typical immersion times will be 30 min - 5 hours depending upon the type and thickness of rubber to be removed. The components should then be rinsed using an air-water spray gun.

After water rinsing the components should be totally immersed in an aqueous solution of e.g. Ardrox® 6025A, followed by rinsing and drying. This will ensure that any residues of Ardrox® 2312 remaining on the components are neutralised.

4 Effects on materials

When used in the prescribed manner no significant corrosion is likely to be encountered.

Ardrox® 2312 fulfils the requirements of AMS 1386 A concerning corrosion.

5 Shelf life, storage and disposal

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

6 Labor and environmental protection

Before operating the process described it is important that this complete document, together with any relevant Safety Data Sheets, be 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.

7 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.

Method of control

Apparatus and reagents required:

- ✓ 1 x 50 ml Burette graduated to 0.1 ml
- ✓ 1 x 250 ml conical flask
- ✓ 1 x 5 ml safety pipette
- ✓ 0.1 N sodium hydroxide solution
- ✓ Distilled/deionised water
- ✓ Phenolphthalein indicator solution

Restoration of drag-out losses

Drag-out losses should be restored daily. When the tank is filled initially with Ardrox® 2312, the level should be recorded by means of a dipstick. Before using the tank daily, enough fresh Ardrox® 2312 should be added to the tank in order to restore it to the original level.

Method of titration

Adjust tank solution for drag-out losses as described in "Restoration of drag-out losses" above.

Pipette 5 ml of tank solution (using a safety pipette) into a 250 ml conical flask, add 100 ml of distilled/deionised water and shake the flask and contents thoroughly. Titrate flask solution with 0.1 N sodium hydroxide solution, using 5 - 6 drops of phenolphthalein indicator solution until a pink end point persists for 20 seconds.

Record titre obtained in millilitres.

Titre obtained with fresh solution = 33.5 ml (± 0.5 ml).

When the titre falls below 20 ml the Ardrox®® 2312 tank material should be discarded.

The above details have been compiled to the best of our knowledge on the basis of tests and research work and with regard to the current state of our practical experience. This technical product information is non-binding. No liabilities or guarantees deriving from or in connection with this leaflet can be imputed to us. Statements relating to possible uses of the product do not constitute a guarantee that such uses are appropriate in a particular user's case or that such uses do not infringe the patents or proprietary rights of any third party. The reproduction of any or all of the information contained in this leaflet is expressly forbidden without Chemetall's prior written consent.

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