

Scope

ARDROX 14 is a blend of mineral acid, surfactants and inhibitors.

ARDROX 14 will remove rust, heat treatment scale and welding scale from ferrous metals simply and economically.

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

Chemicals required

ARDROX 14

Testing chemicals required

Indicator solution No.1 (phenolphthalein)

Testing solution No.1 (0.1N sodium hydroxide solution)

Method of use

Where heavy rust and scale are to be removed, ARDROX 14 may be used as supplied. Usually concentrations ranging from 3 parts ARDROX 14 plus 17 parts water to 1 part ARDROX 14 plus 1 part water are adequate. (Parts indicated to be by volume).

The preferred operating temperature is 20 - 30°C. Temperatures in excess of 50°C should not be used.

Components to be treated should be degreased, if necessary, before being immersed in ARDROX 14. Fume extraction is required over tanks of ARDROX 14. After treatment in ARDROX 14, components should be thoroughly rinsed and de-watering fluid such as ARDROX 3961 or 3962 applied to give protection from corrosion.

Method of control

Restore the volume of the tank to its original level, if necessary, by adding water. Thoroughly mix and take a sample of 50-100ml. After allowing to cool to ambient, pipette 25ml into a 250ml volumetric flask. Make up to the mark with distilled water. Pipette 10ml of this solution into an Erlenmeyer flask and add 5-10 drops of Indicator solution No.1. Titrate against Testing solution No.1 to a pink end-point. Record the volume used as (V). The bath strength is calculated as follows:

Strength (vol% ARDROX 14) = V x 1.4

Effects on materials

ARDROX 14 is inhibited against attack on steel. It will rapidly attack aluminium, zinc, magnesium and cadmium.

Technical information

Appearance: Pale straw coloured liquid.

Density: 1.1 g/ml at 20°C.

Flash point: Non-flammable.

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

Store under normal conditions with the containers tightly closed.

Equipment materials

Polythene, polypropylene and unplasticised PVC are suitable materials for tank construction. Stainless steel and mild steel are not suitable.

Safety guidance

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General information

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

Labour and environmental protection

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.

Further specific information on the products can be found in the EC Safety Data Sheets supplied. The user should also pay strict attention to information and hazard symbols shown on product labels.

Waste disposal

All waste waters must be treated in accordance with national legislation and local regulations prior to discharge to the sewer.

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