

Scope

ARDROX ORTHOSIL F2 is a blend of caustic alkali and silicates in combination with alkali builders and surfactants.

ARDROX ORTHOSIL F2 can be used either as a soak cleaner or as a spray washing machine additive for the removal of oil, grease and general soils from ferrous components.

Chemicals required

ARDROX ORTHOSIL F2

Testing chemicals required

Indicator solution No.9 (screened methyl orange)

Testing solution No.9 (0.1N sulphuric acid solution)

Method of use

When used as a soak cleaner, the normal working concentration for ARDROX ORTHOSIL F2 is between 2 – 5% w/v in water. The resulting solution is used at a temperature between 85°C and its boiling point. Agitation of the solution will reduce cleaning times. When used as a washing machine additive, the normal working concentration is 2 – 5% w/v in water. The operating temperature should be 85°C minimum.

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 5ml into a 250ml Erlenmeyer flask and add about 50ml of distilled water and 4-6 drops of Indicator solution No.9. Titrate against Testing solution No.9 to a colour change from green to red. Record the volume used as (V)ml, then the bath strength is calculated as follows:

Strength ARDROX ORTHOSIL F2 (%w/v) = $V \div 9$

To raise the bath strength by 1%w/v, add 10g of ARDROX ORTHOSIL F2 for each litre of solution in the tank.

Effects on materials

ARDROX ORTHOSIL F2 solutions are safe to use on ferrous components. Working solutions will rapidly attack aluminium, zinc, tin, lead and their alloys. Intending users are advised to check the compatibility of ARDROX ORTHOSIL F2 solutions with any other materials they wish to use.

Technical information

Appearance: Off white/tan coloured powder.

pH (1% w/v solution in water): Approximately 13.

Store in a cool, dry place. Keep container tightly closed.

Equipment materials

Mild steel is suitable for tank construction however, heaters should be constructed of stainless steel or Inconel.

Safety guidance

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

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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