Ardrox® 6333B

BORATE-FREE ALKALINE CLEANER

1 Description

Ardrox® 6333B is an aqueous based liquid concentrate comprising a blend of alkali builders, sequestrants, corrosion inhibitors and biodegradable surfactants.
Ardrox® 6333B can be used under a variety of operating conditions for the removal of oil, grease and soft carbon deposits from ferrous alloys, aluminium, copper, titanium and magnesium.
Ardrox® 6333B is primarily intended for spray applications thanks to its low foaming properties and high cleaning efficiency but it is also able of good performance in immersion applications.
Ardrox® 6333B is designed to meet the latest regulations and future environmental standards; in particular, it is free of borate.

Approvals & conformances

✓ Airbus UK	ABP 8-1290
✓ Boeing	BSS 7432
✓ Fokker	70/100 AMM
✓ Rolls Royce	CSS204 & OMat
✓ SAE	ARP 1755
✓ SAE	AMS 1526
✓ SNECMA	DMP 13-300

Ask your Chemetall representative for a complete list of approvals

2 Physical and chemical properties

Property	Typical Value	Unit
Appearance	Pale yellow liquid	-
Density @ 20 °C / 68 °F (concentrate)	1.07 8.93	g/ml lbs/gal
pH @ 20 °C / 68 °F (concentrate)	> 12	-
Flash point	Non flammable	-

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

3 Application

Ardrox® 6333B is normally used diluted with water, the concentration depending upon the degree and nature of the soiling encountered.

Use in spray washing machines

Mix Ardrox® 6333B with water at a concentration range of 2 % to 5 % and then heat to 40 °C to 70 °C (104 °F to 158 °F). Spray the parts and then rinse in water.

Engine and component cleaning

Ardrox® 6333B is applied using hot or cold high-pressure spray equipment. The dilutions are to be determined by experience.

Other applications

Although Ardrox® 6333B was designed especially for spray application, it might be suitable for other applications thanks to its good cleaning performance.
Agitation is required if used by immersion. Use from 20 % to undiluted and from room temperature up to 80 °C (176 °F).

4 Effects on materials

When Ardrox® 6333B is used in the prescribed manner, no significant corrosion will occur on the majority of metals including steel, aluminium, magnesium, copper, and cadmium plating. It has no deleterious effect on good quality paint schemes under normal conditions of use. Ardrox® 6333B does not cause any hydrogen embrittlement on high-strength steel.

Stainless steel or mild steel is suitable for tank construction.

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, metalworking and protection and non-destructive testing. Sales executives are available to advice on specific problems and application.

Method of control

Required chemicals

- ✓ Indicator solution: Bromocresol green
- ✓ Testing solution: 0.1N Sulphuric acid solution

Measure

Restore the volume of the tank to its original level, if necessary, by adding water. Thoroughly mix and take a sample.
Pipette 20 ml of this solution into an Erlenmeyer flask, add about 50 ml distilled water and 5 to 10 drops of the indicator solution. Titrate the content against 0.1 N acid solution to a color change from blue to yellow or until the pH value of 4.1 is reached.

Record the volume used as (V) ml, then the bath strength is calculated as follows:

Strength (%v/v Ardrox® 6333B) = 0.5 x V

Replenishment of the bath

Measured strength (%v/v Ardrox® 6333B) = S
Required concentration in %v/v = C
Volume of the solution in the tank = T
Volume (V) of Ardrox® 6333B concentrate which has to be added to the tank is then calculated as:

$$V\ (Ardrox\ 6333B) = T\frac{(C - S\ )}{(100 - C)}$$

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