Ardrox® 6025A

MULTI-PURPOSE AIRCRAFT CLEANER

1 Description

Ardrox® 6025A may be used for the removal of light grease and oils, dust, sooty deposits and brake dust. It is suitable on painted and unpainted surfaces. It can be used for cleaning the exterior of aircrafts as well as a primary cleaner in maintenance and overhaul operations.

Ardrox® 6025A is a liquid alkaline concentrate consisting of biodegradable surfactants, alkaline additives, highly efficient co-solvent and corrosion inhibitors to provide a more effective and safer cleaner.

Ardrox® 6025A is designed to meet the latest regulations and future environmental standards.

Approvals & conformances

✓ Airbus	CML 08CJA1
✓ ASTM International	ASTM F-945
✓ Boeing	BSS7434
✓ Rolls Royce	Overhaul Material OMat 1/24, CSS 201
✓ SAE	ARP 1755, AMS 1526

Ask your Chemetall representative for a complete list of approvals.

2 Physical and chemical properties

Property	Typical Value	Unit	Test Method
Appearance	Pale yellow liquid	-	-
pH (concentrate)	12.1 at 20 °C / 68 °F	-	-
Density (concentrate)	1.06 at 20 °C 8.85 at 68 °F	g/ml lbs/gl	-

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

3 Application

Depending on the soil Ardrox® 6025A can be used as received or diluted with water.

Heavy soiling: use as a concentrate or as dilution in water above 50 % by volume.
Light soiling: use as dilution in water in a range of 2 to 10 % by volume.

Ardrox® 6025A can be applied manually or by spraying or high-pressure device. The product can also be used in immersion and ultrasonic bath at temperatures up to 60 °C / 140 °F.

In case of persistent carbon deposit, a mixture of Ardrox® 6025A/water/kerosene (mix ratio 1:1:3) may be used. This mixture is emulsified and applied by sponge or by spraying.

Post-rinse with clear water.

Run cleaning solution as per the instructions of the OEM manufacturer standard procedure.

4 Effects on materials

When Ardrox® 6025A is used in the prescribed manner, no significant corrosion will occur on the majority of metals including steel, mild steel, aluminum, magnesium, copper, and cadmium plating. It does not cause any hydrogen embrittlement on high-strength steel or stress corrosion cracking on titanium.

Ardrox® 6025A has no deleterious effect on good quality paint schemes under normal conditions of use and will not craze polymethylmetacrylate.

Equipment/tanks should be constructed of stainless steel.

5 Storage

Store in a cool place, with protection from freezing conditions.

6 Waste release

Any release shall respect all the applicable national and local regulation.

7 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.

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 application.

Method of Control

Required chemicals

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

Measure

Restore the volume of the tank to its original level, if necessary, by adding water. Thoroughly mix and take a sample.
Pipette 25 ml of the cleaner tank sample to an Erlenmeyer flask, add about 50 ml distilled water and 5-10 drops of the indicator solution. Titrate the content against a 0.1 N acid solution to a color change from blue to yellow or the pH value of 4.1 is reached.

Record the volume used as (V_{acid}) ml, then the strength is calculated as follows:

Strength (% v/v Ardrox 6025A) = 0.7 * V_{acid} = S

Replenishment of the bath

Measured strength (% v/v Ardrox® 6025A) = S
Required concentration in % v/v = C
Volume of the solution in the tank = T
Volume (V) of Ardrox® 6025A concentrate which has to be added to the tank is then calculated as:

$$V\ (Ardrox\ 6025A) = T\frac{(C - S)}{(100 - C)}$$

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