

Ardrox[®] 6367

COMPRESSOR CLEANER

1 Description

Ardrox[®] 6367 is a liquid product formulated to clean the compressor sections of gas turbine engines. It is solvent free and removes atmospheric soils, oils, carbon and salt deposits during “in-situ” hot-fired and cold motor washes.

Ardrox[®] 6367 is safe on all aircraft metals, plastics, windows, etc., and is non-flammable and biodegradable. In addition, it contains an inhibitor which protects the engine components from oxidation and corrosion for up to 3 days.

Regular cleaning with Ardrox[®] 6367 helps maintain peak engine efficiency and reduces maintenance and fuel cost. Ardrox[®] 6367 is compatible with recognized antifreeze materials used during cold weather cleaning.

Approvals & conformances

✓ CFM International	CFM56 CP5060
✓ GE Commercial Engines	SPM 70-80-04, Ref. C04-140
✓ International Aero Engines	V2500
✓ Pratt & Whitney	SPM 70-12-00, SPMC 87-10A
✓ Rolls Royce	CSS 260 & Overhaul Material OMat 1070F
✓ Snecma	DMP 13-300
✓ Boeing	BSS7432

Ask your Chemetall representative for a complete list of approvals.

2 Physical and chemical properties

Property	Typical Value	Unit
Appearance	Clear, pale straw-colored liquid	-
Density	approx. 1.02 @ 20 °C	g/cm ³
pH	7 - 8 (20%, diluted in water)	-
Flash point	> 95 °C	-

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

3 Method of use

Ardrox[®] 6367 is diluted with demineralised water in the proportions of 1 part Ardrox[®] 6367 to 4 parts water. Cleaning is most efficient, if the product is applied while the compressor is running (cleaning mode). Pressure and flow will be dependent upon engine type and level of fouling. Always apply Ardrox[®] 6367 according to the procedures given by the engine manufacturer.

Ardrox[®] 6367 is also excellent for use in an immersion bath.

After completion of the wash, the engine should be rinsed with demineralized water and then protected with water-displacing fluid, e.g. Ardrex® 3-series, unless the engine is to be used immediately. If there is no requirement to rinse, corrosion protection is assured for up to 3 days.

4 Effects on material

When used as recommended, Ardrex® 6367 is non-corrosive to the metal alloys and paint schemes normally used; the pH-value is neutral.

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 applications.

Method of Control

Required chemicals

- ✓ Indicator solution: Bromophenol blue
- ✓ 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 of 50-100 ml.

After allowing to cool to ambient pipette 20 ml of this solution into an Erlenmeyer flask, add about 50 ml distilled water and 5-10 drops of a Bromophenol blue indicator solution.

Titrate against 0.1N Sulfuric acid solution to a color change at pH of 4.0 from blue to yellow.

Alternatively, the endpoint of the titration could be terminated by pH indication, too.

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

$$\text{Strength (\% Ardrex® 6367)} = 1.1 * V$$

Replenishment of the bath

For each percentage point that the strength is low, add 1.0 liter of Ardrex® 6367 for each 100 liter of bath solution.

Remark

The color / endpoint indication of the indicator could be trained by using both methods, pH indication and indicator, simultaneously.

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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