

Gas turbine compressor cleaner

Scope

ARDROX 6345 is a liquid concentrate, which consists of an aqueous blend of non-ionic surface active agents and corrosion inhibitors.

ARDROX 6345 is intended for use in the 'in-situ' washing of the compressor stages of gas turbine engines. It is designed to remove the accumulation of atmospheric impurities, oil and oil oxidation products that occurs in the compressor of such engines and so restore the power loss caused by these deposits.

Chemicals required

ARDROX 6345

Method of use

ARDROX 6345 is used diluted with water in the proportion of 1 part product plus 4 parts water. The product has a low trace analysis of inorganic impurities and, in order that the working solution applied to the compressor is equally low in such impurities, ARDROX 6345 must be diluted with good-quality distilled or deionised water only.

The ARDROX 6345 solution is sprayed into the cranked or fired engine, according to the engine manufacturers' approved method, using the equipment and technique appropriate to the engine being cleaned. The volume of solution required and the flow rate will depend on engine type.

CAUTION

Some manufacturers do not permit any solutions to be sprayed into a running, or fired, engine : refer to the appropriate maintenance procedures.

After cleaning, the engine should be rinsed with distilled or deionised water and then protected with water-displacing fluid, ARDROX 3961, unless the engine is to be used immediately.

Effects on materials

When used as recommended, ARDROX 6345 is non-corrosive to the materials normally used in gas turbine engine construction. It is also non-corrosive to the alloys and paint schemes normally used in airframe construction. It will not craze or discolour polymethylmethacrylate plastic or cause hydrogen embrittlement.

Technical information

Appearance: Clear, yellow, mobile liquid.

Density: 1.02 g/ml at 20°C

pH: 8.5 (product as supplied)

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

Equipment materials

Equipment/tanks can be constructed of 316 or 320 stainless steel.

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.

Ic Feb 2001 (Amend July 04)