



## FYREWASH® F3 O&G

### Efficient Gas Turbine Compressor Cleaning

## ULTRA PURE BIO-DEGRADABLE WATER BASED DETERGENT FOR ONLINE & OFFLINE COMPRESSOR WASHING ON OFFSHORE OIL & GAS PLATFORMS

### PRODUCT DESCRIPTION

FYREWASH® F3 O&G was developed to give the maximum possible cleaning efficiency and effectiveness from a non-solvent chemical, whilst being able to meet the stringent standards for offshore use.

When developing and testing Fyrewash F3® O&G, Rochem's chemists evaluated all other leading non-solvent water-based chemicals to make sure that F3® O&G would have superior cleaning qualities. This resulted in a non-hazardous, user-friendly and highly biodegradable water-based cleaner which now sets the standard against which the performance and cost effectiveness of all other true non-solvent water-based gas turbine compressor cleaners can be judged.

Fyrewash F3® O&G is also available in containers of 200 pcs of 38 x 16cm lint-free wipes. Treated with Fyrewash F3® O&G gas turbine compliant cleaning chemical these wipes are ideal for hand cleaning of gas turbine blades and other gas turbine parts. For Professional Use Only.

Approved and meets most major OEM's world-wide. CEFAS 'Gold' colour-banded for use offshore. Fyrewash F3® O&G contains no components which are candidates for substitution.

### APPLICATION

FYREWASH® F3 O&G can be used with any on-line/off-line injection system but for optimum cleaning results and economic usage of chemicals, Rochem offers a full range of patented manual or fully automatic atomising injection systems to suit any engine type.

### ON-LINE CLEANING

Is normally performed by mixing one part Fyrewash F3® O&G concentrate with four (4) parts of water into a stable solution. Use demineralised water as specified by the engine manufacturer, typically <math><11\mu\text{S}/\text{cm}</math>. The volume of chemical solution needed per wash and the optimum cleaning frequency will depend upon engine size, operating environment and fouling tendency. It is recommended that a post rinse is performed to ensure that the nozzle system is cleaned and ready for next operation.

### OFF-LINE, CRANK WASHING

Concentrated Fyrewash F3® O&G is normally mixed with four (4) parts of good quality water. The solution is injected at cranking speed, allowed to soak for 20 to 30 minutes then thoroughly rinsed off at cranking speed with good quality water acceptable to the engine manufacturer. Fyrewash F3® O&G can be used without dilution for offline cleaning, providing a superb cleaning result for heavily fouled compressors.

### ANTIFREEZE

Add antifreeze below +10°C, Fyrewash F3® O&G is compatible with Methanol, Propylene Glycol, Ethylene Glycol. Rochem manufacture a superior freeze point depressant, Rochem FPD, please contact Rochem for further information.

### FEATURES and BENEFITS

- Safely and effectively cleans compressors on-line when running at any speed and load.
- Extremely effective non-solvent cleaner.
- Meets the most stringent requirements of gas turbine manufacturers.
- Ideal for light and frequent on-line washing of any type of industrial, marine or aviation gas turbine to maintain in-service output and fuel efficiency.
- On-line cleaning reduces damaging shutdown/start-up thermal cycles and starter wear and tear.
- Ideal for off-line cleaning due to high biodegradability.
- Non-flammable.
- Mixes readily with most antifreeze agents to allow low ambient temperature on-line/off-line cleaning.
- Supplied in concentrated form to reduce transport and handling costs and minimise storage requirements.
- Worldwide product support.
- Backed by Rochem's unique high value product liability insurance.
- Can be supplied as wipes for cleaning many other gas turbine parts

### MANAGEMENT SYSTEM

Tariff code 34029090 Europe

### QUALITY MANAGEMENT SYSTEM

ISO 9001:2008

### ENVIRONMENTAL MANAGEMENT SYSTEM

ISO14001: 2004

### PACKAGING

25 lt (6.5 USG) pails, 210 lt (55 USG) drums & 1000 lt International Bulk Container (IBC)  
Container of 200 Lint-free wipes

### SHIPPING

No restrictions. Classified as non-hazardous for international transport by road, sea and air

### STORAGE

Store in a cool, dry place in tightly closed receptacles

### SHELF LIFE

5 years

OFF-SHORE



OIL & GAS

# FYREWASH® F3 O&G



# ROCHEM

TECHNICAL SERVICES

Established in 1978

## SAFETY AND HANDLING

HAZARDS	EC Hazard rating: Xi. Irritant US NFPA rating: 1, 1, 0
PROTECTIVE MEASURES	Non-hazardous but avoid frequent prolonged direct contact with skin to prevent possibility of de-oiling skin and wear eye protection as a matter of course when handling any chemical.
SPILLAGE	Absorb large spillages with sand or earth. Flush away small spillages with water.
FIRE	Use foam, carbon dioxide, dry chemicals, sand or earth.

## FIRST AID

EYES	Flush liberally with water. If any irritation persists seek medical attention.
SKIN	Wash skin with soap and water.
INHALATION	Remove patient to fresh air. If rapid recovery does not occur obtain medical attention.

## TYPICAL PROPERTIES

APPEARANCE	Clear liquid
DENSITY	In g/ml at 20°C: 1.00
FLASH POINT	No flash point
pH (20% solution)	7 – 7.5

Please contact your nearest Rochem office for full information on this or any other on-line or off-line compressor washing procedure.

## IMPORTANT ECOLOGICAL NOTES

FYREWASH® F3 O&G is a safe and highly biodegradable chemical. However, for off-line, crank-wash cleaning all chemical solution and rinse water drainage should be collected and disposed of properly no matter what type of chemical (Solvent based or detergent based) is being used. Always adhere to the local & national regulations.

Rochem or any associated or subsidiary company's warranties of fitness and merchantability, if any, as well as any express warranties regarding the use of this product shall not be effective or actionable unless the goods are used as directed herein and in no other manner due to potential hazards from improper use of the goods described herein. Product might vary slightly depending on country of origin

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Certificate No: AJA08/12780

ISO9001:2008 AJA Accreditation attained by RTS-Europe – Manufacturers of equipment



ISO9001:2008  
Cert. No. AQA665377



ISO14001:2004  
Cert. No. RQA665378

ISO9001:2008 and ISO14001:2004 Lloyds Accreditation attained by ROMACO – Manufacturers of Firewash Chemicals



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