



## FYREWASH® SB

Efficient Gas Turbine Compressor Cleaning

### THE ORIGINAL HEAVY DUTY ONLINE & OFFLINE CLEANER FOR GAS TURBINE COMPRESSORS

#### PRODUCT DESCRIPTION

FYREWASH® SB was the first heavy duty hydrocarbon solvent based chemical to be developed specifically for online, fired wash cleaning of gas turbine compressors.

Other petroleum solvent based cleaner have come and gone over time, but FYREWASH® SB continues to stand the test of time being the best degreasing, de-oiling & decarbonising compound there is for gas turbine compressor cleaning. FYREWASH® SB can be used for both online & offline washing providing the operator with a high powered solution to compressor fouling.

Approved & meets most major OEM's world-wide.

#### APPLICATION

FYREWASH® SB 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® SB 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® SB 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® SB can be used without dilution for offline cleaning, providing a superb cleaning result for heavily fouled compressors.

#### ANTIFREEZE

Add antifreeze below +10°C, FYREWASH® SB 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 compressor cleaner.
- Leaves no chemical residue.
- 100% safety record in thousands of gas turbines over millions of operating hours.
- 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.

#### MANAGEMENT SYSTEM

Tariff code 340290900 Europe

#### QUALITY MANAGEMENT SYSTEM

ISO 9001:2008

#### ENVIRONMENTAL MANAGEMENT SYSTEM

ISO14001: 2004

#### PACKAGING

25 lt (6.6 USG) pails and 210 lt (55 USG) drums

#### 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

**IMPROVED****SB****FORMULA****FYREWASH® SB****ROCHEM**  
TECHNICAL SERVICES  
Established in 1978

## SAFETY AND HANDLING

HAZARDS	EC Hazard rating: Xn, harmful : Xi, Irritant US NFPA rating: 1, 1, 0
PROTECTIVE MEASURES	Wear suitable protective clothing, gloves and eye/face protection and use in a well-ventilated area.
SPILLAGE	Clean-up personnel should wear suitable protective clothing and eye/face protection. Do not run off to sewer. Collect with non-combustible absorbent material (i.e. vermiculite, sand or earth).
FIRE	Use foam, carbon dioxide, dry chemicals, sand or earth. Do NOT use water jets as this may spread the fire. May produce carbon monoxide.

## FIRST AID

EYES	Promptly rinse eyes with lots of clean water while lifting eyelids. Seek medical attention.
SKIN	Promptly wash skin with soap and water after removing any contaminated clothing from skin. If irritation persists seek medical attention.
INHALATION	Move affected person to fresh air/well ventilated area at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest and get prompt medical attention.
IF SWALLOWED	Do NOT induce vomiting. Let affected person drink as much water as possible and get prompt medical attention. <b>NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS.</b>
HANDLING	Store in a well-ventilated area away from oxidisers, open flames and extreme heat.

## TYPICAL PROPERTIES

APPEARANCE	light yellow fluid
DENSITY	In g/ml at 20°C: 0.93
FLASH POINT PMCC	Concentrate: 94°C
Solution:	Non

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® SB contains a highly active petroleum based solvent, which makes it unbeatable as a compressor cleaner.

However, by the same token, it is NOT a threat to the environment because, being a hydrocarbon-based compound which is at least as refined as the fuel being burned in the engine, it also burns very cleanly and does NOT cause any additional pollution.

And, since ALL contaminated chemical and rinse water drainage from off-line, crank washing must also be collected and disposed of correctly no matter what type of chemical is used (solvent or detergent based) SB is also ideal for this application as well. It will always clean better than a simple detergent and can be less costly to dispose of because it can be incinerated at lower cost.

Beware of water-based detergent suppliers who make very misleading and dangerous claims about being able to simply dump their chemical and post rinse water to earth or storm drains during and after crankwash. No matter how safe and biodegradable a chemical solution may be before it passes through the gas turbine it is highly unlikely to be in a similar safe condition when it drains away – unless, of course, it has not come into contact or failed to remove any foulant at all.

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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