ROOHBAN **FYREWASH®**

Powerful, Efficient. Reliable

FYREWASH®

F1 is a high purity hydrocarbon solvent & surfactant formultion for heavy duty online and offline compressor cleaning.

"BEST PRODUCT FOR OIL LEAKS AND HEAVY INDUSTRIAL AREAS"



Environmentally friendly water based detergent for online and offline compressor washing on offshore oil & gas platforms.

CEFAS APPROVED FOR OFFSHORE APPLICATIONS

FYREWASH®

A low foam water based cleaner containing a renewable solvent compressor cleaning.

"BEST LOW FOAM WATER BASED PRODUCT ON THE MARKET

FYREWASH®

Environmentally friendly developed specially for

WE RECOMMEND USING IT WITH ONE OF OUR INJECTION SYSTEM TO ENSURE THE HIGHEST RESULTS

FYREWASH®

Environmentally friendly water based detergent for online and offline compressor washing.

"SUPERIOR CLEANING **QUALITIES THAT ARE** NON-HAZARDOUS & **ENVIRONMENTALLY** FRIENDLY"

FYREWASH®

Highly bio-degradable water based detergent for online and offline compressor cleaning.

CAPABLE OF REMOVING THE WIDEST SPECTRUM OF FOULING

A range of powerful specialist compressor cleaning chemicals exhibiting outstanding performance, they're designed for all types of fouling and meet current OEM and environmental standards worldwide All of the Rochem FYREWASH® chemical ranges are suitable for both on-line and off-line washing.



















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@atamoraofficial





Maximum efficiency for heavy duty cleaning



This high purity hydrocarbon solvent and surfactant chemical is our original FYREWASH® and the best in our compressor cleaning range for oil leaks and industrial areas.

When should I use FYREWASH® F1? Choose

FYREWASH* F1 when you want the best performance possible from a compressor cleaning chemical. Safe and effective for both on-line and offline use, it is designed to combat a range of foulants to restore and maintain turbine efficiency.

How do I use it?

FYREWASH® F1 is diluted with four parts demineralised water and can be injected directly into the compressor during normal turbine operation (on-line use). It can also be used for off-line cleans, supporting your maintenance schedule.

Does it meet OEMs?

Yes. FYREWASH* F1 meets most major original equipment manufacturer (OEM) and environmental standards around the world.

Is it safe?

Yes. FYREWASH* F1 has a 100% safety record in thousands of turbines and millions of operating hours. It cleans effectively and leaves no chemical residue.

Properties Appearance:

Colourless.

Shelf Life: 3 years.

Typical Properties: Density 0.847g/ml@ 20°C, Flash point 88°C, Fluid form, PH 7.4 (20% in water).

Dilution: FYREWASH° F1 concentrate with four (4) parts of water into a stable solution.

Application: FYREWASH® F1 can be used with any online or off-line injection system.

Water Rinse: When on-line washing, as with all our chemicals, it is best carry out a rinse flush with demineralised water. For off-line washing, rinse until the run-off is clear.

Antifreeze: If the temperature falls below +10°C, we recommend adding antifreeze. FYREWASH° F1 is compatible with Methanol, Propylene Glycol and Ethylene Glycol. Enquire about our superior freeze point depressant.

Health & Safety

FYREWASH® F1 a highly active petroleum based solvent and surfactant.

FYREWASH FO 1-2

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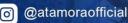
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Maximum efficiency for heavy duty cleaning

EC Hazard rating: Health hazard; Corrosive. US NFPA rating 3,1,0

Protective measures: Wear suitable protective clothing, gloves and eye/face protection and use in a well ventilated area.

If spilled: 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.

Management System

TARIFF CODE: 34029090 **EUROPE ISO14001:** 2015,

ISO9001: 2015 & ISO45001: 2018

Environmental Considerations

When using and disposing of any chemical, you should refer to your local environmental procedures. Collect the chemical solution and rinse water for correct disposal.

Find out more about our FYREWASH® range:



High purity hydrocarbon solvent and surfactant formulation for heavy duty on-line and off-line compressor cleaning.

Best product for oil leaks and heavy fouling



A low foam water based cleaner containing a sustainable plant based grease cutter for on-line and off-line compressor cleaning.

Best low foam water based product on the market



Environmentally friendly water based detergent for on-line and off-line compressor washing.

Superior cleaning qualities that are non-hazardous and environmentally friendly



Environmentally friendly water based detergent for online and offline compressor washing on offshore oil & gas platforms.



Environmentally friendly developed specially for Rolls Royce gas turbine compressors.

We recommend using it with one of our injection system to ensure the highest results



Highly bio-degradable water based detergent with zero cloud point for on-line and off-line compressor cleaning.

Capable of removing the widest spectrum of fouling



Superior cleaning qualities that are non-hazardous and environmentally friendly

detergent for on-line and off-line compressor washing.



Capable of removing the widest spectrum of fouling

detergent with zero cloud point for on-line and off-line compressor cleaning.



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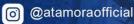
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ROCHEM® FYREWASH®



FYREWASH® F2 24

Low Foaming, Fast Rinsing gas turbine compressor cleaning



With a water base, sustainable plant based grease cutter, this highperformance chemical is readily biodegradable, renewable and impressively effective.

Properties Appearance: Colourless.

Shelf Life: 3 years.

Typical Properties: Density 0.97-1.010g/ml@ 20°C, Flash point NA, Fluid form, PH 7.2 - 7.8 (20% in water).

Dilution: FYREWASH* F2₂₄ concentrate with four (4) parts of water into a stable solution.

Application: FYREWASH° F2₂₄ can be used with any on-line or off-line injection system.

Water Rinse: When on-line washing, as with all our chemicals, it is best carry out a rinse flush with demineralised water. For off-line washing, rinse until the run-off is clear.

Antifreeze: If the temperature falls below +10°C, we recommend adding antifreeze. FYREWASH* F224 is compatible with Methanol, Propylene Glycol and Ethylene Glycol. Enquire about our superior freeze point depressant.

Health & Safety

FYREWASH* F2₂₄ is safe and highly biodegradable. However, for off-line, crank washing all chemical

When should I use FYREWASH F2 24? If you're working within strict environmental parameters e.g. in a marine setting, FYREWASH* F224 is the perfect choice. It offers exceptional cleaning from a chemical that is highly biodegradable, sustainable plant based grease cutter with a low foaming characteristic that reduces downtime and water consumption. It's ideal for both on-line and offline gas turbine compressor washing and is compatible with any compressor wash system.

How do I use it?

FYREWASH° F2₂₄ is diluted with four parts demineralised water and can be injected directly into the compressor during normal turbine operation (online use). It can also be used for off-line cleaning, supporting your maintenance schedule.

Does it meet OEMs?

Yes. FYREWASH* F224 meets most major original equipment manufacturer (OEM) and environmental standards around the world.

Is it water-efficient?

Yes. While cleaning effectively, its low-foaming characteristic reduces off-line wash cycle time: further supporting your environmental efforts.

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OPERATION OFFICE















Low Foaming, Fast Rinsing gas turbine compressor cleaning

solution and rinse water drainage should be collected and disposed of properly no matter what type of chemical is being used.

EC Hazard rating: Irritant, US NFPA rating 2,0,0

Protective measures: Wear suitable protective clothing, gloves and eye/face protection and use in a well ventilated area.

If spilled: 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.

Management System

TARIFF CODE: 34029090

EUROPE ISO14001: 2015, **ISO9001:** 2015

Environmental Considerations

When using and disposing of any chemical, you should refer to your local environmental procedures. Collect the chemical solution and rinse water for correct disposal.

Find out more about our FYREWASH® range:



High purity hydrocarbon solvent and surfactant formulation for heavy duty on-line and off-line compressor cleaning.

Best product for oil leaks and heavy fouling



A low foam water based cleaner containing a sustainable plant based grease cutter for on-line and off-line compressor cleaning.

Best low foam water based product on the market



Environmentally friendly water based detergent for on-line and off-line compressor washing.

Superior cleaning qualities that are non-hazardous and environmentally friendly



Environmentally friendly water based detergent for online and offline compressor washing on offshore oil & gas platforms.



Environmentally friendly developed specially for Rolls Royce gas turbine compressors.

We recommend using it with one of our injection system to ensure the highest results



Highly bio-degradable water based detergent with zero cloud point for on-line and off-line compressor cleaning.

Capable of removing the widest spectrum of fouling



Superior cleaning qualities that are non-hazardous and environmentally friendly

detergent for on-line and off-line compressor washing.



Capable of removing the widest spectrum of fouling

detergent with zero cloud point for on-line and off-line compressor cleaning.



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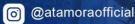
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High-performing, environmentally-friendly gas turbine compressor cleaning



This highly biodegradable waterbased detergent sets the standard against which other cleaning chemicals can be judged. It offers outstanding results with minimum environmental impact.

When should I use FYREWASH® F3? Choose

FYREWASH® F3 if you are looking for exceptional cleaning but are conscious of the environment. It is perfect for both on-line and off-line gas turbine compressor washing, and can be used with any compressor wash system.

How do I use it?

FYREWASH® F3 is diluted with four parts demineralised water and can be injected directly into the compressor during normal turbine operation (on-line use). It can also be used for off-line cleaning, supporting your maintenance schedule.

FYREWASH* F3 is also available in a specific Oil & Gas, Rolls Royce formulation, and in wipe format to make manual cleaning even easier. (See separate data sheets for more information.)

Does it meet OEMs?

Yes. FYREWASH* F3 meets most major original equipment manufacturer (OEM) and environmental standards around the world.

Properties Appearance: Colourless.

Shelf Life: 3 years.

Typical Properties: Density 1.00g/ml@ 20°C, PH 7 - 7.5 (20% in water).

Dilution: FYREWASH° F3 concentrate with four (4) parts of water into a stable solution.

Application: FYREWASH° F3 can be used with any online or off-line injection system.

Water Rinse: When on-line washing, as with all our chemicals, it is best carry out a rinse flush with demineralised water. For off-line washing, rinse until the run-off is clear.

Antifreeze: If the temperature falls below +10°C, we recommend adding antifreeze. FYREWASH* F3 is compatible with Methanol, Propylene Glycol and Ethylene Glycol. Enquire about our superior freeze point depressant.

FYREWASH*

1-2

OPERATION OFFICE













High-performing, environmentally-friendly gas turbine compressor cleaning

Health & Safety

FYREWASH° F3 is safe and highly biodegradable. However, for off-line, crank washing all chemical solution and rinse water drainage should be collected and disposed of properly no matter what type of chemical is being used.

EC Hazard rating: Health hazard; Corrosive. Xi. Irritant. US NFPA rating 3-1-0

Protective measures: Non-hazardous but avoid frequent prolonged direct contact with skin to prevent possibility of de-oiling skin. Wear eye protection as a matter of course when handling any chemical.

If spilled: Absorb large spillages with sand or earth. Flush away small spillages with water.

Fire: Use earth or sand, carbon dioxide, foam or dry chemicals.

Management System

TARIFF CODE: 34029090

EUROPE ISO14001: 2015, ISO9001: 2015

Environmental Considerations

When using and disposing of any chemical, you should refer to your local environmental procedures. Collect the chemical solution and rinse water for correct disposal.

Find out more about our FYREWASH® range:



High purity hydrocarbon solvent and surfactant formulation for heavy duty on-line and off-line compressor cleaning.

Best product for oil leaks and heavy fouling



A low foam water based cleaner containing a sustainable plant based grease cutter for on-line and off-line compressor cleaning.

Best low foam water based product on the market



Environmentally friendly water based detergent for on-line and off-line compressor washing.

Superior cleaning qualities that are non-hazardous and environmentally friendly



Environmentally friendly water based detergent for online and offline compressor washing on offshore oil & gas platforms.



Environmentally friendly developed specially for Rolls Royce gas turbine compressors.

We recommend using it with one of our injection system to ensure the highest results



Highly bio-degradable water based detergent with zero cloud point for on-line and off-line compressor cleaning.

Capable of removing the widest spectrum of fouling



Superior cleaning qualities that are non-hazardous and environmentally friendly

detergent for on-line and off-line compressor washing.



Capable of removing the widest spectrum of fouling

detergent with zero cloud point for on-line and off-line compressor cleaning.



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ROCHEM® FYREWASH®



FYREWASH® F3 oil & Gas

Effective, biodegradable cleaning for offshore use



This highly biodegradable waterbased detergent is specifically designed for the tough conditions of gas turbines based offshore. It achieves superior cleaning with minimum environmental impact.

Oil & Gas

When should I use FYREWASH® F3 O&G?

Choose FYREWASH* F3 O&G if you are looking for exceptional gas turbine compressor cleaning while restricted by the environmental challenges of offshore sites. Use it with any compressor wash system for both on-line and off-line gas turbine compressor washing.

How do I use it?

FYREWASH* F3 O&G is diluted with four parts demineralised water and can be injected directly into the compressor during normal turbine operation (online use). It can also be used for off-line cleans, supporting your maintenance schedule.

FYREWASH® F3 is also available in wipe format to make manual cleaning even easier. (See separate data sheet for more information.)

Does it meet OEMs?

Yes. FYREWASH® F3 O&G meets most major original equipment manufacturer (OEM) and environmental standards around the world.

Appearance: Colourless.

Shelf Life: 3 years.

Typical Properties: Density 1.00g/ml@ 20°C, PH 7 - 7.5 (20% in water).

Dilution: FYREWASH° F3 O&G concentrate with four (4) parts of water into a stable solution.

Application: FYREWASH° F3 O&G can be used with any on-line or off-line injection system.

Water Rinse: When on-line washing, as with all our chemicals, it is best carry out a rinse flush with demineralised water. For off-line washing, rinse until the run-off is clear.

Antifreeze: If the temperature falls below +10°C, we recommend adding antifreeze. FYREWASH° F3 O&G is compatible with Methanol, Propylene Glycol and Ethylene Glycol. Enquire about our superior freeze point depressant.

Health & Safety

FYREWASH* F3 O&G is safe and highly biodegradable. However, for off-line, crank washing all chemical solution and rinse water drainage should be collected

FYREWASH*

Oil & Gas

1-2

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FYREWASH® F3 oil & Gas

Effective, biodegradable cleaning for offshore use

and disposed of properly no matter what type of chemical is being used.

EC Hazard rating: corrosive. US NFPA rating 3,1,0

Protective measures: Non-hazardous but avoid frequent prolonged direct contact with skin to prevent possibility of de-oiling skin. Wear eye protection as a matter of course when handling any chemical.

If spilled: Absorb large spillages with sand or earth. Flush away small spillages with water.

Fire: Use earth or sand, carbon dioxide, foam or dry chemicals.

Management System

TARIFF CODE: 34029090

EUROPE ISO14001: 2015, **ISO9001:** 2015

Environmental Considerations

When using and disposing of any chemical, you should refer to your local environmental procedures. Collect the chemical solution and rinse water for correct disposal.

Find out more about our FYREWASH® range:



High purity hydrocarbon solvent and surfactant formulation for heavy duty on-line and off-line compressor cleaning.

Best product for oil leaks and heavy fouling



A low foam water based cleaner containing a sustainable plant based grease cutter for on-line and off-line compressor cleaning.

Best low foam water based product on the market



Environmentally friendly water based detergent for on-line and off-line compressor washing.

Superior cleaning qualities that are non-hazardous and environmentally friendly



Environmentally friendly water based detergent for online and offline compressor washing on offshore oil & gas platforms.



Environmentally friendly developed specially for Rolls Royce gas turbine compressors.

We recommend using it with one of our injection system to ensure the highest results



Highly bio-degradable water based detergent with zero cloud point for on-line and off-line compressor cleaning.

Capable of removing the widest spectrum of fouling



Superior cleaning qualities that are non-hazardous and environmentally friendly

detergent for on-line and off-line compressor washing.



Capable of removing the widest spectrum of fouling

detergent with zero cloud point for on-line and off-line compressor cleaning.



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FYREWASH® F3 RR

Specialist cleaning for Rolls Royce gas turbine compressors



Our specialist cleaning chemicals are used at gas turbine sites around the globe. Having been in the industry for over 40 years, we have become the trusted experts when it comes to cutting edge technology for this unique field.

FYREWASH* F3 RR is specifically designed for use with Rolls Royce gas turbine compressors. Non-hazardous, biodegradable and user-friendly, it achieves superior cleaning to help maintain an efficient, productive system.

Rolls Royce formulation

This formulation has been specifically created to effectively clean Rolls Royce gas turbine compressors and meet MSRR 9914.

Easy to use

A highly biodegradable, non-solvent, water-based chemical, FYREWASH* F3 RR can be used on-line or off-line with any injection system.

CEFAS approved

It is CEFAS approved for offshore use allowing you to achieve exceptional results in demanding conditions.

Available as wipes

FYREWASH® F3 is also available as lint-free wipes which are perfect for manual cleaning and for use on many other turbine parts.

Safe

It is non-hazardous, safe to use and chosen around the globe for its outstanding results and compatibility with Rolls Royce gas turbine compressors.

Properties of FYREWASH® F3 RR

Appearance: Colourless.

Shelf Life: 5 years.

Typical Properties: Density 1.01g/ml@ 20°C, PH

8.5 (20% in water).

Dilution: FYREWASH* F3 RR concentrate with four (4)

parts of water into a stable solution.

Application: FYREWASH* F3 RR can be used with any

on-line or off-line injection system.

Water rinse: When on-line washing, as with all our chemicals, it is best carry out a rinse flush with demineralised water. For off-line washing, rinse until the run-off is clear.



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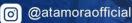
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FYREWASH® F3 RR

Specialist cleaning for Rolls Royce gas turbine compressors

Antifreeze: If the temperature falls below +10°C, we recommend adding antifreeze. FYREWASH* F3 RR is compatible with Methanol, Propylene Glycol and Ethylene Glycol. Enquire about our superior freeze point depressant. Ethylene Glycol. Enquire about our superior freeze point depressant.

FAQs about FYREWASH® F3 RR What about health and safety?

This chemical highly biodegradable and safe. However, no matter what type of chemical is being used chemical solution and rinse water drainage should be collected and disposed of properly.

- EC Hazard rating: Health hazard; Corrosive. Xi. Irritant. US NFPA rating 3-1-0.
- Protective measures: Non-hazardous but avoid frequent prolonged direct contact with skin to

prevent possibility of de-oiling skin. Wear eye protection as a matter of course when handling any chemical.

- If spilled: Absorb large spillages with sand or earth. Flush away small spillages with water.
- Fire: Use earth or sand, carbon dioxide, foam or dry chemicals.

What are the management system codes?

TARIFF CODE: 34029090

EUROPE ISO14001: 2015, **ISO9001:** 2015

Environmental Considerations

When using and disposing of any chemical, you should refer to your local environmental procedures. Collect the chemical solution and rinse water for correct disposal.

Find out more about our FYREWASH® range:



High purity hydrocarbon solvent and surfactant formulation for heavy duty on-line and off-line compressor cleaning.

Best product for oil leaks and heavy fouling



A low foam water based cleaner containing a sustainable plant based grease cutter for on-line and off-line compressor cleaning.

Best low foam water based product on the market



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Superior cleaning qualities that are non-hazardous and environmentally friendly



Environmentally friendly water based detergent for online and offline compressor washing on offshore oil & gas platforms.



Environmentally friendly developed specially for Rolls Royce gas turbine compressors.

We recommend using it with one of our injection system to ensure the highest results



Highly bio-degradable water based detergent with zero cloud point for on-line and off-line compressor cleaning.

Capable of removing the widest spectrum of fouling



Superior cleaning qualities that are non-hazardous and environmentally friendly

detergent for on-line and off-line compressor washing.



Capable of removing the widest spectrum of fouling

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FYREWASH[®] **F3** Blade Wipes

Superior, convenient cleaning wipes



FYREWASH® F3 is a water-based, truly non-solvent cleaning chemical chosen for its effectiveness and biodegradable credentials. Harnessing the properties of FYREWASH® F3, we have created these convenient, pre-soaked lint-free wipes to simplify and improve manual compressor cleaning.

Blade Wipes

Extremely user-friendly, these wipes ensure only suitable chemicals and materials come into contact with delicate compressor components, while allowing for thorough removal of foulants. They can be used to support regular on-line washes as part of your maintenance schedule.

Effective

Harnesses the properties of FYREWASH® F3 which is trusted around the world as an effective, biodegradable, water-based chemical.

Lint-free

Each dispenser contains 200 sheets (38x16cm each) of non-woven, lint-free wipes on a roll with sheet separating perforations.

Dual-use

After cleaning, use a dried wipe to thoroughly remove any remaining deposits and moisture without leaving any lint behind.

Safe Convenient

Pre-soaked and ready to use, these wipes ensure you use the correct dilution of specialist FYREWASH® F3 to target common foulants.

Used correctly they are safe, non-hazardous and will not damage compressor blades or leave behind lint or residue.

Properties of FYREWASH® F3 Blade Wipes

Appearance: Lint free cloth wipes.

Shelf Life: 5 years.

Typical Properties: Density 1.00g/ml@ 20°C, PH 7 -7.5 (20% in water).

Application: FYREWASH® F3 Blade Wipes can be used for hand cleaning compressor blades and surfaces.

Health & Safety

- The chemical can cause serious eye damage: Wear protective gloves/protective clothing/ eye protection/face protection.
- If it gets into your eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

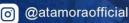


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FYREWASH[®] **F3** Blade Wipes

Superior, convenient cleaning wipes

- If ingested, immediately call a poison centre/doctor
- Rinse empty containers with water and use for next wash. Disposal of the product, its mixtures, rinsate and any spills residue must be in accordance with local, regional, state, federal, national, international regulations

Management System

TARIFF CODE: 34029090

EUROPE ISO14001: 2015, **ISO9001**: 2015

Environmental Considerations

When using and disposing of any chemical, you should refer to your local environmental procedures. Collect the chemical solution and rinse water for correct disposal.

Find out more about our FYREWASH® range:



High purity hydrocarbon solvent and surfactant formulation for heavy duty on-line and off-line compressor cleaning.

Best product for oil leaks and heavy fouling



A low foam water based cleaner containing a sustainable plant based grease cutter for on-line and off-line compressor cleaning.

Best low foam water based product on the market



Environmentally friendly water based detergent for on-line and off-line compressor washing.

Superior cleaning qualities that are non-hazardous and environmentally friendly



Environmentally friendly water based detergent for online and offline compressor washing on offshore oil & gas platforms.



Environmentally friendly developed specially for Rolls Royce gas turbine compressors.

We recommend using it with one of our injection system to ensure the highest results



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Capable of removing the widest spectrum of fouling



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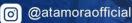
Mobile Phone: 081310787177 (Products)

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Efficient Gas Turbine Compressor Cleaning



This Highly Bio-Degradable Water Based Detergent For Online & Offline Compressor Washing



FYREWASH® F4 was developed to give the maximum possible cleaning efficiency and effectiveness from a non-solvent chemical.

Rochems R&D department have developed this product using state of the art technology, resulting in a non-hazardous, user-friendly and biodegradable water-based cleaner.

FYREWASH® F4-MC has been developed to meet the most stringent cleaning abilities and chemical & physical requirements to meet the standard for military applications according to MIL-PRF-85704-c.

FYREWASH® F4-CC is an environ mental friendly product, according to OECD 301-A test and has been developed to meet the requirements of OCNS foruse offshore whilst still achieving a high cleaning ability and meeting the biodegradability requirements.

Both FYREWASH® F4 versions meet all major OEM's specification requirements world-wide and have a high temperature stability.

Application

FYREWASH® F4 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 ange of patented manual or fully automatic atomising injection systems to suit any engine type.

On-Line Cleaning

Is normally performed by mixing onepart FYREWASH® F4 concentrate with four (4) parts of water into a stable solution. Use demineralised water as specified by the engine manufacturer, typically <11 μ S/cm. 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® F4 is normally mixed with four (4) parts of good quality water. The solution is injected at cranking speed, allowed to soak for



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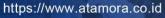
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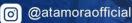
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Efficient Gas Turbine Compressor Cleaning

20 to 30 minutes then thoroughly rinsed off at cranking speed with good quality water acceptable to the engine manufacturer. FYREWASH® F4 can be used without dilution for offline cleaning, providing a superb cleaning result for heavily fouled compressors.

Antifreeze

Add antifreeze below +10°C, FYREWASH® F4 is compatible with Methanol, Propylene Glycol, Ethylene Glycol. Rochem manufacture a superior freeze point depressant, Rochem FPD, please contact local office for further information.

Features and Benefits

- Safely and effectivelycleans compressors on-line when running at any speed and load.
- Extremely effectivenon-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/startup thermal cycles and starter wear and tear.
- Ideal for off-linecleaning due to high biodegradability.
- Non-flammable.
- Mixes readily with most antifreeze agents to allow low ambient temperature on-line/off-linecleaning.
- 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 34029090 EUROPE ISO14001:2004 ISO9001-2008

Shelf Life

5 Years

Health & Safety

EC Hazard rating: Health hazard; 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.

If spilled: 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-Flash Point: No flash point.

Appearance-Density In g/ml at 20°C:

FYREWASH® F4-CC: 1.01 - FYREWASH® F4-MC: 1.02

Appearance- pH (20% solution): FYREWASH® F4-

CC: 7.5 FYREWASH® F4-MC: 8.5

FYREWASH*

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Efficient Gas Turbine Compressor Cleaning

Environmental Considerations

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Important Ecological Notes

FYREWASH® F4 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.

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