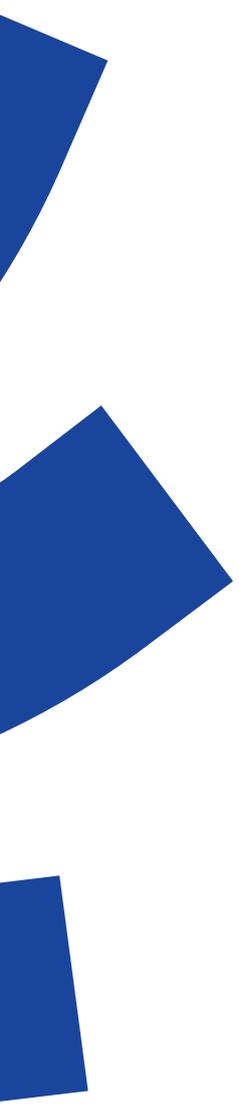




ZOK

Gas Turbine Cleaner & Corrosion Inhibitor



ZOK has formulated and
manufactured gas turbine
compressor cleaning fluids
since 1980.

ZOK have extensive experience of delivering long-term commercial and environmental benefits to our worldwide customer base via our dedicated global distribution network.



ZOK | INNOVATION

Bio-degradable formula for all gas turbine engines

A research & development program ensures ZOK's future as a global leader in the manufacture & distribution of water-based, biodegradable, environmentally responsible gas turbine compressor cleaning fluids. We provide our customers with a competitive advantage in all markets.



ZOK | QUALITY

Approved by all major gas turbine manufacturers

ZOK's specialist personnel guarantees that all ZOK users have access to the best in customer service, ensuring operators have the opportunity to call upon ZOK's expertise to provide product support that makes the difference when it comes to clean, efficient gas turbine compressors.

ZOK | TRUST

Proven cleaning formula endorsed by the British MoD

Approved and used by Major Gas Turbine Original Equipment
Manufacturers (OEMs) and leading global operators in all
industry sectors.



The ZOK Product Range

Gas turbine compressor and gas path cleaning restores and maintains gas turbine engine performance and efficiency, reduces fuel consumption and reduces exhaust gas temperatures for a given power output, increasing both availability and reliability.



pH
7.2 - 7.5

Specific Gravity
1.01

Corrosion Inhibitor
Yes

Total Alkali Metals
After Dilution
< 0.5 ppm



pH
7.0 - 7.5

Specific Gravity
1.03

Corrosion Inhibitor
Yes

Total Alkali Metals
After Dilution
< 0.5 ppm

CEFAS Rating
GOLD

Availability: Pack Sizes

ZOK products are available in both concentrate and pre-diluted Ready To Use (RTU) form in the following pack sizes:

- 25 Litre Can
- 210 Litre Drum
- 1000 Litre IBC

Our Range: What's the difference?

ZOK 27 products are pH neutral and contain an effective corrosion inhibitor.

ZOK GOLD STANDARD products are designed to meet the requirements of the OSPAR Convention for reduced environmental impact in sensitive marine environments, such as the North Sea. This scheme is administered by CEFAS in the UK.



ZOK 27 Cleaner & Inhibitor

Water based Cleaner and Corrosion Inhibitor package

Our Original Formula: Developed with the United Kingdom Ministry of Defence for use with Search & Rescue helicopters.

The water based, biodegradable, cleaner and corrosion inhibitor package offered by ZOK 27 gas turbine compressor and gas path cleaner allows the unique ability to start a washed and protected engine on demand, without needing to rinse before use.

Corrosion inhibition performance and duration are dependant on environmental conditions. Corrosion inhibition effectiveness can be restored with a simple engine wash (with no demineralised water rinse).



ZOK 27 GOLD STANDARD Cleaner & Inhibitor

Environmentally sensitive and contains a corrosion inhibitor

Our Environmentally Sensitive Formula: Cleaner and corrosion inhibitor with a 'GOLD' rating for reduced environmental impact.

ZOK 27 Gold Standard is a water based biodegradable gas turbine compressor and gas path cleaner and corrosion inhibitor package that offers excellent cleaning performance for use in environmentally sensitive areas; for example the North Sea.

Corrosion inhibition performance and duration are dependant on environmental conditions. Effectiveness can be restored with a simple engine wash (with no demineralised water rinse).

The OSPAR (Oslo & Paris) Convention has been protecting the marine environment of the North East Atlantic since 1972. The ratings take into account Toxicity, Bio-degradability and Bio-accumulation to produce a 'colour banding' hazard level, with the 'GOLD' banding having the LOWEST environmental impact rating.

Benefits of Washing

To keep any gas turbine operating at optimum performance requires regular, scheduled compressor washing and planned maintenance.

A major source of power losses are airborne contaminants fouling the compressor and Inlet Guide Vanes (IGV's).

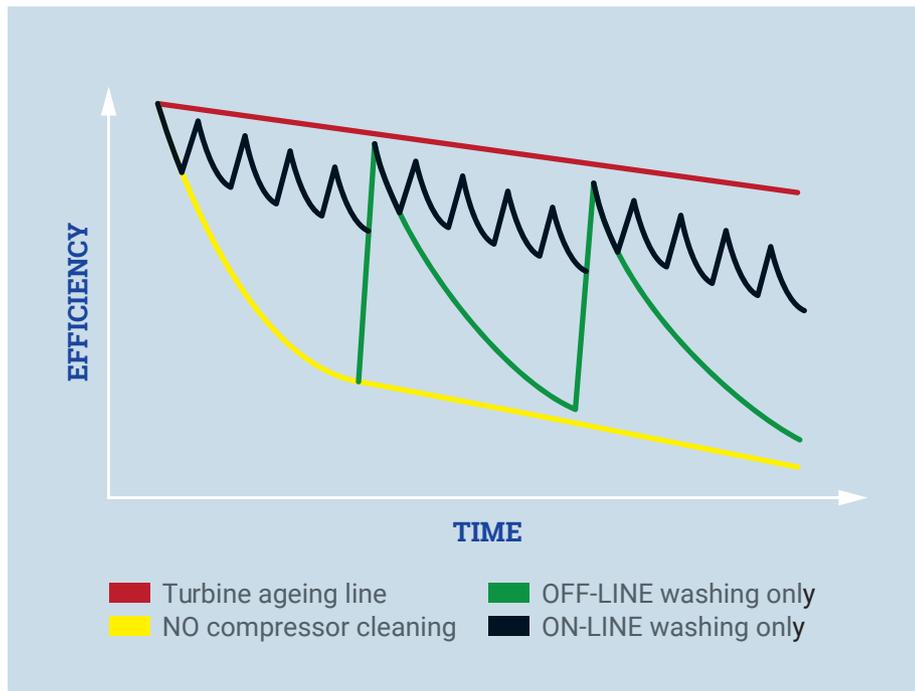
These contaminants reduce the efficiency of the compressor blades and IGV's.

Benefits of regular compressor washing:

- Power recovery
- Increased fuel efficiency
- Reduced unplanned downtime
- Reduced exhaust gas temperature
- Reduced emissions



Photographs taken of the compressor face and IGV's before and after washing with ZOK mx clearly demonstrate the effectiveness of washing.



The 'Red' line illustrates the natural 'ageing' line or drop in performance of the GT compressor.

The 'Yellow' curve illustrates the rapid loss in overall GT compressor performance when NO washing is employed. The 'Black' line shows the effectiveness of washing, when implementing online cleaning.

The 'Green' line represents the recovery in compressor performance when an off-line wash is undertaken. You will notice that efficiency has returned to near optimum levels.

Aviation

ZOK cleans gas turbine compressors in challenging and changeable environments – so it's no wonder that the MOD and civil aviation companies from around the world have been using ZOK for over 35 years to keep their jet engines in peak condition.

Contaminated GT compressors reduce power, increase exhaust temperatures and consume more fuel – therefore, maintaining a clean engine will minimise fuel burn and ensure the maximum ROI via a very small outlay by washing with ZOK.

All ZOK products are friendly to the operator and the environment.



Military

Since the early eighties the MOD have relied on the cleaning power of ZOK to keep their rotary and fixed wing aircraft in peak condition. Not only does an efficient jet engine mean cost savings, but it can also mean extra power when most needed to save the aircraft and the crew in a combat condition.

Jet engines can lose 10% or more of their efficiency if not kept clean. Washing with ZOK ensures maximum available power output, improved fuel efficiency and reduced wear and tear.



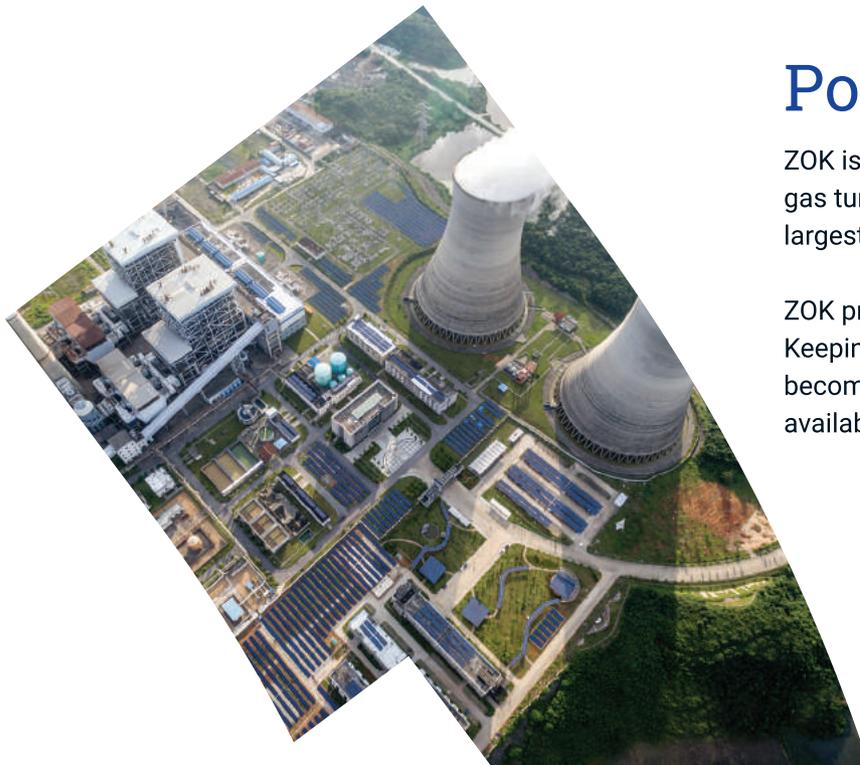
Oil/Gas

ZOK cleaning products are biodegradable and water-based. Specifically designed for use in ecologically sensitive environments, they are approved by all leading engine manufacturers.

By avoiding the build-up of engine contamination you can boost performance, lower operating temperatures, reduce fuel consumption, minimise downtime and increase the life of an engine.

Clean and efficient gas turbines help to ensure the safety and responsiveness valued by industrial operators.

ZOK provides exceptional cleaning without the health and environmental risks associated with solvent cleaners.



Power Stations

ZOK is an international brand used to clean all types of gas turbine compressors from the smallest unit to the largest power generating engines.

ZOK products are approved by almost every OEM. Keeping your GT compressor clean stops your engine becoming a financial “black hole” and maximises availability.

Approvals

ZOK is approved by Major Gas Turbine Original Equipment Manufacturers (OEMs), including:



ALSTOM

SIEMENS



Pratt & Whitney
A United Technologies Company



Rolls-Royce



Certifications



Cefas



Clients

A cross section of our Clients:



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Our formula: Over 37 years
of quality, trust & innovation.



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Group Ltd

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