



Turbotect

GAS TURBINE COMPRESSOR CLEANER

2020

Water-based for **ON LINE** and **OFF LINE** use

TURBOTECT 2020 is a superior quality, water-based, gas turbine compressor cleaner designed for both ON LINE and OFF LINE applications. It provides extremely high cleaning performance that is comparable to solvent-based products. TURBOTECT 2020 is formulated from a unique blend of non-ionic surfactants and emulsifiers in a biodegradable water-based system. The product has been specially designed to address the types of fouling commonly found in today's gas turbines, where deposits are typically compact mixtures of various salts with urban and industrial pollutants, hydrocarbons, and other carbonaceous materials. TURBOTECT 2020 is a low-foaming product, and the wash fluid may be used cold or hot.

The ash-free ingredients in TURBOTECT 2020 have been carefully selected to ensure that no incremental contamination of the gas turbine hot section can occur. The product also has an extremely low non-volatile residue content. It is suitable for all gas turbines including the modern high-output models, and can be used in any plant location around the world.

TURBOTECT 2020 includes specially selected inhibitors to ensure compatibility with aluminum, magnesium, nickel, nickel-cadmium, stainless steel, titanium and common coatings including painted surfaces and elastomers.

TURBOTECT 2020 conforms to **MIL-PRF-85704C** specification for Type II (OFF LINE) and Type III (ON LINE) aqueous cleaner concentrates. It also meets the most stringent specification requirements set by the major gas turbine manufacturers.

APPLICATION

TURBOTECT 2020 is supplied as a concentrate and forms a stable solution when mixed with water at the recommended dilution ratio, which is normally 1-part TURBOTECT 2020 to 4-parts water. Note that for ON LINE cleaning most engine manufacturers require demineralized water quality for preparing the wash fluid. For ON LINE cleaning, TURBOTECT 2020 is injected into the compressor while the engine is operating. Average power loss is reduced and operating intervals between periodic OFF LINE cleaning can be extended. For OFF LINE cleaning TURBOTECT 2020 is used at the same dilution strength, and power recovery is normally significant following the soak and rinse procedure.

Note: The engine manufacturer should be consulted prior to ON LINE cleaning at low ambient temperatures. Turbotect offers non-hazardous antifreeze agents for these applications.

HANDLING AND STORAGE

TURBOTECT 2020 should be handled and stored as any other industrial chemical. Containers and storage tanks should be kept sealed to prevent contamination. Indoor or covered outdoor storage is recommended, and excessive heat or freezing should be avoided.

TURBOTECT 2020 is biodegradable, and following an OFF LINE wash the dirty effluent water should be disposed of in compliance with local regulations. During ON LINE cleaning the product is completely consumed.

SAFETY PRECAUTIONS

TURBOTECT 2020 contains no hazardous ingredients. However, it is an industrial chemical and should be handled with care and respect. Do not take internally and avoid eye contact. In case of ingestion, wash mouth with water. In case of eye contact, flush with large amounts of clean water. Consult the material safety data sheet.

AVAILABILITY

TURBOTECT 2020 is available in non-returnable polyethylene drums containing 208 liters / 55 US gallons of product.

TYPICAL PROPERTIES

Appearance	clear, blue liquid
Specific gravity @ 15°C (59°F)	0.995 g/cm ³
Density @ 15°C (59°F)	8.30 lb/US Gal
Flash point (PMCC)	>100°C (>212°F)
Boiling point	100°C (212°F)
Freeze point	0°C (32°F)
Ash content	<0.01% wt.

Ecological information: According to EPA 40 CFR 796.3100 "Aquatic Aerobic Biodegradation" test criteria, TURBOTECT 2020 will undergo rapid and ultimate biodegradation in aerobic aquatic environments, also known as "ready biodegradability".

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TURBOTECT ADDS VALUE
FOR MORE THAN 25 YEARS