

FX-9[®] TURBO[®]

Super Concentrate 1:19

FX-9[®] TURBO[®] Super Concentrate 1:19 is four (4) times more concentrated than our industry standard FX-9 Turbo Concentrate 1:4. High volume users will benefit from using this product since it will reduce packaging, transportation and environmental costs. The product is specially formulated for on-line (hot wash) and off-line (cold wash) cleaning of gas turbine compressors.

On-line cleaning of gas turbine compressors is known to provide the most effective method for preventing gas turbine fouling. It ensures maximum available power output, better fuel efficiency and reduced wear and tear on machine components such as bearings and blades. The period between necessary gas turbine shut-downs for off-line washing (crank-wash) is significantly extended, thus reducing costly downtime and production losses.

FX-9[®] TURBO[®] Super Concentrate 1:19 is non-hazardous, water-based, non-corrosive, non-toxic, non-flammable and biodegradable Gas Turbine Compressor cleaner with no Alkyl Phenol Ethoxylates (a-p-e), Nonyl Phenol Ethoxylates (n-p-e) and other ingredients with aquatic toxicity in its formulation.

FX-9[®] TURBO[®] Super Concentrate 1:19 is based upon a complex formulation relying on a property called **synergism** that improves detergency. Its formulation does not just rely on simple non-ionic surfactants for its cleaning. Thus it has no **"cloud point temperature"** for exceptional dirt suspension abilities so that all fouling is carried into the combustion chamber during on-line cleaning. This results in extremely high cleaning performance that other gas turbine compressor cleaners cannot match.

FX-9[®] TURBO[®] Super Concentrate 1:19 has inherent corrosion inhibiting properties that are compatible with aluminum, magnesium, nickel-cadmium, stainless steel, and titanium to further protect the compressor against possible corrosion. Product conforms to US-MIL-PRF-85704C specification for Type II (Off-Line) and Type III (On-Line) aqueous cleaner concentrate after dilution.

FX-9[®] TURBO[®] Super Concentrate 1:19 is supplied as a super concentrated liquid. Please refer to dilution rates prior to use.

For on-line and off-line cleaning dilute **1:19** (1 part FX-9 Turbo and 19 parts of demineralized water) before use. Potable water may be used for off-line cleaning / Crank Wash.

FX-9[®] TURBO[®] Super Concentrate 1:19 is non-aggressive against the eyes and skin. However, standard safety procedures for the application and handling of cleaning products must be observed.

Storage: Store between 4° C and 80° C. If inadvertently frozen, product can still be used after thawing. **Shelf Life:** 5 years

Tariff Code: 3402 20 90



FX-9 Turbo Super Concentrate 1:19 PRODUCT DATA

Description: A super concentrated neutral water-based detergent cleaning fluid for cleaning and corrosion inhibiting of gas turbine compressors.

Composition: Blended triple-active formula of cationic, non-ionic and amphoteric surfactants, corrosion inhibitors, organic solvents and demineralized water.

Appearance: Straw colored liquid.

Solubility: Completely soluble in water. No agitation is required.

Compatibility: Not corrosive or detrimental to any of the materials normally used in gas turbine compressors or aircraft structures.

Disposal: FX-9 Turbo Super Concentrate 1:19 is biodegradable. Small spillage can be flushed with water. For large spillage, absorb with sand or earth prior to disposal. Disposal of the off-line wash effluent is determined by the engine fouling found in the solution.

Typical Properties (after dilution to FX-9 Turbo 1:4 concentrate):

Specific gravity:	1.0 ± 0.10
pH (20°C):	7.5 ± 0.50
Viscosity (20°C):	20 ± 5 cSt
Flash Point (°C PMCC):	Min 100
Ash Content:	< 0.01% w/w
Sodium & Potassium:	< 5 ppm
Magnesium & Calcium:	< 5 ppm
Vanadium:	< 0.1 ppm
Lead:	< 0.1 ppm
Tin / Copper:	< 10 ppm
Sulphur:	< 50 ppm

Packaging:	200 litre drum	218 Kg gross weight.
	1000 litre IBC/Tote.	1115 Kg gross weight.

Shipping: No restrictions. Product is classified as non-hazardous for international transport by air and sea.

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www.fx-9turbo.com

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