

New Compressor Cleaning Media



Turbotect's new 2020 cleaning solution for off- and on-line compressor washing is water based and has been specially developed to address the type of fouling found in today's gas turbines.

Turbotect has recently introduced its new 2020 cleaning solution for off- and on-line compressor washing. This new water-based formulation has been developed to address the type of fouling that is commonly found in today's gas turbines — where deposits tend to be compact mixtures of various salts, urban and industrial pollutants, hydrocarbons and other carbonaceous materials.

The new product complements the Turbotect 950, a product that has been on the market since 1993, but involves some totally new chemical components that provide synergy to the formulation. According to the Swiss company, Turbotect 2020 is designed to provide a remarkably high level of cleaning effi-

ciency compared to other water-based products, and offers an environmentally friendly alternative to solvent-based cleaners. The cleaning solution penetrates compressor IGV deposits and quickly emulsifies any oil and grease, thereby freeing all other water soluble and water wettable components.

Turbotect 2020 is also a low-foaming formulation that improves rinsing and drainage during an off-line crank wash procedure. The foam dissipates with dilution during rinsing and the dirt is held in the fluid without redeposition.

Ash content and trace of metal impurities within the cleaner are much lower than the limits specified by major gas turbine manufacturers, and this is especially important for on-line compressor cleaning. The formulation also contains specially selected inhibitors to provide protection of compressor components.

Turbotect 2020 conforms to MIL-PRF-85704C and is approved by major gas turbine manufacturers.

An extensive evaluation program has been performed involving many different test methods to measure cleaning efficiency. For example, according to the MIL-PRF-85704C cleaning efficiency test for Type II & III water-based products — but by using air instead of steam to increase the severity of the test — Turbotect 2020 was found to be only slightly below a popular solvent-based cleaner that was included in the test for comparison (98.4% against 99.8% cleaning efficiency).

Turbotect reports that aerobic aquatic biodegradation tests carried out according to EPA CFR 796.3100 guidelines have demonstrated that their 2020 cleaning solution meets the criteria for ready biodegradability (biodegradation rate of 90% in 28 days). The product is also classified as non-hazardous and is not regulated by DOT or IATA for transportation purposes. ♻️

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