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Improving Performance in Specialty Grease

At Nye, our formulation experts pay close attention to making sure Nye greases are appropriately addivated to ensure your application is experiencing optimum performance.

Additive technology is a complicated business because it involves several different chemistries. Often times, one additive can adversely interact with another additive as they both compete for the same area on substrate surfaces.

Additive	Key Characteristics
Anticorrosion	Slows deterioration of non-noble metals
Antioxidant	Prolongs life of base oil by increasing the oxidation resistance
Antirust	Slows corrosion of iron alloys
Antiwear	Helps protect loaded metal surfaces by forming a protective film
Color/UV Dye	Visual markers for inspection or assembly
Conductive Agent	Adds thermal or electrical conductivity
Extreme Pressure (EP)	Solids burnish into surface under pressure forming a protective layer to prevent seizure and severe damage
Friction Modifier	Reduces the coefficient of friction
High-Temperature Enhancer	Boosts high-temperature limit of oil
Tackifier	Increases ability to adhere to moving parts
Viscosity Modifiers	Alters oil viscosity

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Quality Content Update on Website

The Nye website is now featuring an updated quality section. The eight tab section takes you through a timeline of our quality process. This timeline demonstrates how our quality management system meets both your order specifications and our own standards. The section details our certifications and policies, supplier audits, incoming inspections, process qualification, product qualification, packaging inspections, documentation and preventative maintenance.

Throughout our quality process, our applications and regional engineering managers work closely with you to test and formulate a lubricant that helps improve performance of your application. We conduct 100% inspection of all products to a MIL Spec Acceptable Quality Level and we ensure that our facility is in satisfactory and operating condition at all times. Our objective with this section is to give you all the fact-based,

metrics-driven information you need to make informed decisions about our lubricants.

Visit our Quality section.

NSF-61 Certification for two Nye greases

We are pleased to announce that two of our lubricants have received NSF-61 Certification for Potable Water Lubrication. Fluorocarbon Gel 880 and 885 can now be used on Commercial Water Treatment and Drinking Water for both Hot and Cold Water Applications.

This certification provides assurance to our customers that our products are safe to use in drinking water applications from source to tap. The testing done has determined what, if any, contaminants could possibly migrate or leach from our product into drinking water. This approval verifies that our lubricants are below the stringent levels set by the NSF, thus ensuring that drinking water is still safe for consumers.

Jason Galary, Nye's Engineering Development & Application Manager said, "After several years of development and testing, we are very happy to finally present two high performance, wide temperature capable synthetic lubricants designed for sealing, damping, and lubricating drinking water applications. With the NSF /ANSI 61 certification and NSF's Global Passport, we can offer our customers across the world assurance for their drinking water applications."

Why Should You Choose Ultrafiltration?

For over 35 years, Nye Lubricants has been involved in developing innovative procedures, test methods and equipment to provide ultraclean lubricants to the Aerospace, Semiconductor, and Photonic Industries. The primary task of this filtration process is to remove unwanted substance or contamination from the grease or oil.

The contamination level of grease is described by the number of particles within a range, in which the particle sizes are counted under a microscope and are determined by the largest dimension in micrometers. So why should you choose this process for your lubricant? Stringent demands for quality, reliability, and long operating life have made ultrafiltration a requirement for many types of applications. Most typically, applications where particulate matter can jeopardize the operation of miniature and high speed devices call for ultra-filtered greases.

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Experimental Grease Solves Automobile Industry Problem

Nye Fluorocarbon Gel 875L-MS was developed in response to the unacceptable vibration of an intermediate steering shaft assembly during final road testing of completed vehicles coming off the assembly line. A severe vibration traveled through the shaft to the steering wheel and driver. One of the largest automobile manufacturers in the US quarantined the vehicles coming off the assembly line because they were exhibiting the steering vibration. The steering component was designed to function without lubrication and was installed on a new automobile platform that was, at the time, just being introduced to the market place. The automobile manufacturer would not release the vehicles until a solution from the steering manufacturer was proposed. This is where Nye came into play. We were contacted by the steering manufacturer and asked to formulate a grease that would provide a solution to the vibration issue.

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Featured News

Conferences

Jason Galary, Nye's Engineering Development and Applications Manager, will present his paper, "Investigation of Fretting Wear and Durability of Electrical Terminals when exposed to Variable Frequency Vibration," at the 2015 International Tribology Conference. The conference will take place at the Tokyo University of Science, in Japan from September 16th- 20th.

Jay will be presenting his study on the phenomenon of Fretting Corrosion in Electrical Terminals. In this study, dielectric contact greases were tested to evaluate their effect on the reduction of fretting wear and the increased durability and life of electrical terminals used in a variety of applications, including Automotive, Aerospace, and Consumer Electronics.

Awards

Nye Lubricants, Inc. is proud to announce our recent achievement in winning Webasto's 2014 Quality Excellence Award. This distinction is given in acknowledgement and appreciation for Nye's outstanding effort, hard work, time commitment, and technical expertise.

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