

NyeCorr Plus Graham: Good News For Corrugators

When Nye executives asked what they needed to become a major lubricant supplier to the corrugating container industry, three items topped their list: high quality, affordable lubricants for single facers, someone who has firsthand knowledge of the industry's needs, and a commitment to service. With NyeCorr and John Graham, they found all three.

NyeCorr 125 (ISO Grade 220) and NyeCorr 140 (ISO Grade 460) are high-temperature, PTFE-fortified, perfluoropolyether (PFPE) greases formulated for heated roll bearings in single facers, the machines at the heart of the corrugating line. Single facers press flutes into paper before it is dried, cut, and formed into corrugated containers. The NyeCorr greases are also suitable for preheater and preconditioner roll bearings.

John Graham, Nye's new Mid Atlantic Engineering Manager, is the former Corrugating Industry Manager at DuPont, a position he held for eight years. At Nye, he will also serve as Industry Director, moving beyond his assigned territory to lead Nye's entry into the corrugating industry.

"At Nye, my mission to containerboard and related industries still is to provide quality, specialty lubricants," John said, "but Nye enables me to do that more comprehensively. Too often, in the past, I had to walk away from lubricant problems because the one product I had could not provide an economical solution. With the depth of Nye's product line, its commitment to customer service, and its technical competence, especially in the areas of bearing and gear technology, I believe we can be the one-stop synthetic lubricant supplier corrugators want and need."



Perfect Partners. *Interfic, Inc., specifies NyeCorr 125, a new PFPE grease formulated by Nye, for its Standard Glue Machine. Interfic's President, Tony Sissons, says it enhances performance and cuts maintenance costs for his customers.*

John's belief convinced Tony Sissons, President of Interfic, Inc., Dallas, NC, to specify NyeCorr 125 for his company's Standard Glue Machine, which is used to apply adhesive to the flutes of corrugated board. Even though the glue machine does not require a high-temperature grease, Tony believes using a "superior lube gives us an edge on our competitors, and cuts maintenance costs for our customers."

"One reason I switched to NyeCorr is because it offered enhanced anticorrosion properties and reduced the need to relubricate to once a year," Tony said. "More importantly, I found Nye more responsive to my needs. It's always difficult for an engineering company producing

equipment to justify a high quality lubricant when a lower quality one will do the job. Nye was willing to make that decision easier by offering a superior lubricant at a more affordable price."

Quality and affordability are key ingredients in Nye's plan to make inroads into the corrugating industry. John added one more.

"We want to be a presence in this industry, an involved player, working closely with OEMs and containerboard manufacturers," John said. "Within a year, I believe our presence will be recognized."

New Industry Director Named

John Graham, formerly the Corrugating Industry Manager at DuPont, became Nye's new Mid Atlantic Engineering Manager on November 1.

John held a variety of management positions in technical service, marketing, and sales at DuPont, the company he joined 31 years ago. For the last eight years, he was responsible for sales, service, and distribution of Krytox[®] lubricants to the US containerboard industry, a market segment that he developed for DuPont.

While at DuPont, John also directed the Krytox[®] group's sponsorship of NASCAR's Busch Grand National racing program with driver Ricky Craven.

"I enjoyed the NASCAR program," John said, "because I saw similarities between it and the people I worked with in the corrugating industry. You find the same kind of work ethic in both places — maintenance crews in a corrugating plant working 16 hours a day, just like the maintenance crews on race teams. And finding the best lubricant is as important to a corrugating plant as it is to a NASCAR crew."



John Graham

At Nye, John will lead the introduction of Nye and its products, including a new family of PFPE greases, to the corrugating industry. He manages Nye's office in New Jersey, and can be reached at (609) 384-0150. His fax is (609) 384-1220

Roll-Change Cleaning Solvents

On your next roll change, cut through unwanted oil and grease with a duo of ozone-safe solvents from Nye.

Nyesolv HG is an economical solvent for hydrocarbon-based lubricants. It will remove the protective oil on new bearings. It also will purge residual hydrocarbon-based lubricants from bearing components before converting to a PFPE grease like NyeCorr 125 or NyeCorr 140.

Nye Fluorosolvent 504, a nonflammable fluoroalkane, won't clean hydrocarbon-based lubricants, but it is an effective replacement for Freon-TF for fluorinated oils and greases. During a roll change, use it to remove all traces of old PFPE grease from housings, retainers, and other reusable parts before repacking fresh grease.

Nyesolv HG is available in one and five-gallon pails. Nye Fluorosolvent 504 is available in pints, quarts, and five-gallon plastic pails.

Conductive Lubes Can Add Operating Life To Machinery

Electrically conductive greases aren't new to the marketplace, but recently Nye engineers have noticed a renewed interest in the ability of these lubricants to enhance the performance and extend the operating life of various devices.

One application involved static build-up in rolling element bearings in an electric motor. Nye developed its first conductive grease more than 10 years ago to address this problem. Traditional lubricants allow static discharges, or arcs, to pit the rolling elements, which accelerates wear. With a conductive grease, the charge passes through the bearing with minimal electrical damage, and motor life is extended.

A treadmill manufacturer also found a solution with a conductive grease. The treadmill's rubber belt generated static electricity which made its way to the bearing, arced, and fluted the raceway. A conductive grease helped to maintain the ground and extend bearing life. In a similar but more common application, conductive greases bleed static electricity away from the toner cartridge toward the shell in laser printers and copiers.

Conductive greases also improve the performance of single-conductor stationary separable electrical connectors (not sliding switches, which could malfunction if a conductive lubricant is applied.) For example, Nye recently custom-formulated a conductive, fluorinated grease for automotive battery lugs. It enhances conductivity over a wide temperature range when applied to battery terminals.

When the geometry of a connector design does not allow a tight fit, conductive greases can act as a bridge for the current. In another automotive application, Nye formulated a conductive grease that provides a ground return for rotating, steering-column circuitry. A mechanical solution would have required more expensive slip-ring geometry, which would then pose reliability issues. Using a conductive grease to provide a current path between the two moving parts proved to be a much more reliable, cost-efficient approach.

Nye currently offers three standard conductive greases. For rolling element bearings, there are NyoGel 753G, a polyol ester grease,

and NyoGel 756G, a synthetic hydrocarbon for use with ester-vulnerable plastics. These NyoGels offer a volume resistivity of approximately 30 ohm-cm. NyoGel 760H is recommended for stationary connectors. Its volume resistivity is 10,000 ohm-cm, higher than NyoGels designed for bearings because NyoGel 760H contains a greater percentage of hydrophobic thickener (and less conductive filler) to ensure water and salt-water resistance. However, in laboratory tests, its conductivity is still sufficient to turn on a 60-watt light bulb, rendering it an excellent conductivity enhancer for stationary connectors.

Of note, NyoGel 753G and NyoGel 756G do not have the paste-like quality of most conductive greases. Because they rely on a proprietary carbon filler, rather than metallic particles, they are more gel-like, and deliver channeling properties needed for rolling element bearings.

Will a conductive lubricant improve the performance of your application? Technical Director Paul Bessette offers this rule of thumb. If static discharge poses a hazard to any application that requires a lubricant, consider a conductive lubricant.



NyoGel 753G, an electrically conductive bearing grease, helps extend bearing life by allowing static discharge to pass through the bearing instead of pitting the rolling element or fluting the raceway.



P.O. Box 8927 New Bedford, MA 02742-8927 Phone 508-996-6721 Fax 508-997-5285 E-Mail techhelp@nyelubricants.com

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