



Lub^enotes:

Design Engineer's Guide to Selecting a Lubricant

Textile Machine Lubricants



Traditional lubricants have historically played an important role in the operating of textile machinery equipment. Today's world class textile operations demand the highest efficiencies and quality of production, higher speeds, longer runs between planned maintenance, and no tolerance for unplanned down time. These demands require world class machinery design paired with today's world class synthetic lubricant technology. Nye Lubricants has been developing & supplying the highest performing synthetic lubricants to mission critical industries & operations since the time of the double knit leisure suit.

Nye's **line of lubricants for the Textile industry** can offer productivity advantages throughout all the many conversion and specialty processes ranging from machinery used in opening, carding, drawing, & yarn spinning of natural and synthetic staple fiber, to melt spinning, winding, and texturizing of continuous filament yarn, thread, and high tenacity tire cord; and also in the various machinery used in warping, sizing, fabric formation, nonwovens, dyeing, printing, drying, and finishing. Such a wide range of processes and lubrication needs calls for a number of specialized lubricants specifically engineered to optimize specific applications.

With a **comprehensive line of lubricant solutions**, Nye can help your world class manufacturing operation to continuously improve productivity and quality, reduce energy costs, down time, use of spare parts, and overall expenses relating to machinery maintenance costs.

Following is a list of the **synthetic lubricants offered by Nye** for the Textile industry, highlighting Nye's range of products, from extreme high-temperature & chemical resistant greases, to specialty greases, dispersions, and oils. Additional oils, greases and dispersions are available to meet a wide range of application requirements. For further information, technical specifications, evaluation samples, questions about any Nye product, or to discuss a lubricant custom designed for your application - call us at +1.508.996.6721 or visit our website at www.nyelubricants.com.

Contact Nye at +1.508.996.6721
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TECHNOLOGY IN MOTION™

Specialty Oils	Type	Temp. Range	Color	Viscosity at 40°C (cSt)	Viscosity at 100°C (cSt)	Performance	Applications
Nye Oil 113	White Mineral Oil	-10 to 100°C	Clear	40	6.1	Rust inhibitor, smoothness of operation on machinery	Light and delicate machine oil - circular knitting machines - needles, slides and cams
Nye Synthetic Oil 176H	PAO	-30 to 125°C	Light Yellow	378	38	Fortified with anti-wear additives	Heavy chain oil - various chains & slides using areas such as drying, finishing and printing

Specialty Greases and Dispersions	Type	Temp Range	Color	Dropping Point	Viscosity at 40 & 100°C (cSt)	Penetration Unworked	Penetration Worked (60X)	Performance	Applications
NyoGel® 774	PAO/Silica	-30 to 120°C	Tan to light brown	> 260°C Non-melting	5070 / 479	264	283	Dampening grease, noise and vibration reduction	Rings, open end spinning, and chain applications in knitting machines
NyoGel® 774F-1	PAO/Silica	-50 to 120°C	Off-white	> 260°C Non-melting	597 / 80	250	289	Enhanced lubricity, PTFE fortified	Knitting pneumatic cylinders
Rheolube® 362HB	PAO/Lithium Soap	-40 to 125°C	Off-white	207°C	32.6 / 5.7	292	280	PTFE fortified, tackifier, rust inhibitor, improved adherence	Cams, sliding surfaces, small gear trains, mechanical linkages of switch gears
Rheolube® 716L	Poly-olester / Lithium Soap	-54 to 150°C	Tan	185°C	18.5 / 4.1	281	272	Rust inhibited, wide temperature range, quiet operation, ideal for low torque applications	High speed bearings – various motors, opening rollers, rotor turbine
UniFlor™ 4622R	PFPE/PTFE	-20 to 260°C	White	Non-melting	495 / 45.5	254	279	Rust inhibited, wide temperature range, excellent plastic compatibility, resistance to aggressive chemicals	Stenter chain bearing, tenter frame chains, slides and rails and hot tube gear drive in high-tenacity filament quenching process

Nye Product Test Protocols

Dropping Point	ASTM D-2265
Penetration 1/10 mm	ASTM D-217
Evaporation	NYE CTM; or CTM-1; or ATSM D-972 (22 hrs. at 100°C)
Oil Separation	ASTM D-6184; or FTM 791, Method 321.2 (30 hrs. at 100°C)

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