

## Lubricants

Here is a table of commercial and military lubricants and their recommended uses. When ball bearings are ordered without a specified lubricant, it is the policy of NHBB to lubricate with MIL-PRF-6085 oil. Company standard lubricants are LO1 (Winsor Lube L-245X oil) per MIL-PRF-6085 and LG68 (Royco 27 grease) per MIL-PRF-23827. For non-standard lubricants, please consult the factory to select an appropriate type.

The standard quantity of oil varies with bearing size, but is approximately one drop (3-6 mgs) per bearing up to R-2 size and two drops (6-12 mgs) for larger sizes. The standard quantity of grease is 25-35% of the bearing's internal free volume. For non-standard applications, please consult the factory for specific lube fill recommendations.

## Lubrication Types

CODE	BRAND NAME	BASIC TYPE	OPERATING TEMP. °F	USES
LO1	Fuchs Mineral Oil Winsor L-245X (MIL-PRF-6085)	Synthetic oil	-65 to +300	Light general purpose instrument oil
LO2	Royal Lubricants Royco 885 (MIL-PRF-6085)	Synthetic oil	-65 to +300	Light general purpose instrument oil
LY115	Dupont Krytox® 143AC	Fluorinated oil	-30 to +550	High temperature stability Good lubricity properties
LY60	Carnation	Mineral oil	Consult with factory	High speed, FDA approved
LG20	EXXON Mobil Beacon 325	Synthetic grease	-65 to +250	General purpose grease
LG68	Royal Lubricants Royco 27 (MIL-PRF-23827)	Synthetic grease	-100 to +275	Corrosion resistance, heavy loads High speed
LY17	NYE Rheotemp 500	Synthetic (non-silicone) grease	-65 to +350	Specialty lube, high speed/high temp. Inhibits oxidation, anti-wear protection
LY48	EXXON Mobil Mobil 28 (MIL-PRF-81322)	Synthetic hydrocarbon grease	-65 to +350	Wide temperature range Good low temperature torque
LY75	Chevron SRI-2	Mineral grease	-20 to +350	Longer life under high speed/high temp. Water/salt water resistance
LY101	Dupont Krytox® 240AC (MIL-PRF-27617)	Fluorinated grease	-30 to +550	High temperature stability with good lubricity properties
LY121	Kyodo SRL	Synthetic grease	-40 to +300	Low noise and low torque applications
LY328	Castrol Braycote Micronic 601EF	Perfluorinated polyether grease	-112 to +400	Hostile chemical environment Space applications
LY332	Royal Lubricants Royco 13 (MIL-G-25013)	Silicone grease	-100 to +450	Light loads, high temperature Water resistance
LY342	Kluber Asonic GLY 32	Synthetic hydrocarbon	-58 to +284	Low noise, high speed
LY732	Minebea Co., Ltd. Minebea 1473 (proprietary)	Synthetic hydrocarbon grease	-20 to +350	Longer life under high speed/high temp.