

ENGINEERING

Lubrication

Table 27. Typical grease lubricants recommended for use in Barden Precision Bearings.

Barden Code	Designation	Base Oil	Thickener	Operating Temperature Range °F	Maximum dN*	Comments
G-2	Exxon Beacon 325	Diester	Lithium	-65 to 250	400,000	Good anti-corrosion, low torque.
G-4	NYE Rheolube 757SSG	Petroleum	Sodium	-40 to 200	650,000	Anti-oxidation additives, machine tool spindle grease.
G-12	Chevron SR1-2	Petroleum	Polyurea	-20 to 300	400,000	General purpose, moderate speed, water resistant.
G-18	NYE Rheotemp 500	Ester and petroleum	Sodium	-50 to 350	500,000	For high temperature, high speed. Not water resistant.
G-33	Mobil 28	Synthetic hydrocarbon	Clay	-80 to 350	400,000	MIL-G-81322, DOD-G-24508, wide temperature range.
G-35	Du Pont Krytox 240 AB	Perfluoro-alkylpolyether	Tetrafluoro-ethylenetelomer	-40 to 450	400,000	Excellent thermal oxidative stability, does not creep, water resistant and chemically inert.
G-42	NYE Rheolube 350-SBG-2	Petroleum	Sodium/Calcium	-30 to 250	650,000	Spindle bearing grease for normal temperatures and maximum life at high speed.
G-44	Braycote 601	Perfluorinated Polyether	Tetrafluoro-ethylenetelomer	-100 to 500	400,000	Excellent thermal and oxidative stability, does not creep water resistant, chemically inert.
G-46	Kluber Isoflex NBU-15	Ester	Barium Complex	-40 to 250	750,000	Spindle bearing grease for maximum speeds, moderate loads.
G-47	Kluber Asonic GLY32	Ester/Synthetic Hydrocarbon	Lithium	-60 to 300	600,000	Quiet running spindle bearing grease for moderate speeds and loads.
G-50	Kluber Isoflex Super LDS 18	Ester/Mineral	Lithium	-60 to 250	850,000	Spindle bearing grease for maximum speed and moderate loads.
G-71	Rheolube 2000	Synthetic Hydrocarbon	Organic Gel	-50 to 260	400,000	Instrument, general purpose grease with good anti-corrosion, and anti-wear properties. Excellent for use in hard vacuum applications where very low outgassing properties are desired.
G-74	Exxon Unirex N3	Petroleum	Lithium	-40 to 300	650,000	Spindle bearing grease for moderate speeds and loads. Low grease migration. Good resistance to water washout and corrosion.
G-75	Arcanol L-75	PAO/Ester	Polyurea	-60 to 250	1,200,000	Spindle bearing grease for maximum speeds, moderate loads. Requires shorter run-in time than G-46.
G-76	Nye Rheolube 374C	Synthetic Hydrocarbon	Lithium	-40 to 300	650,000	Instrument, general purpose grease for moderate speeds and loads. Stiff, channeling grease with good resistance to water washout and corrosion.
GJ-204	Aeroshell Grease No 7	Synthetic Ester (Diester)	Microgel	-100 to 300	400,000	MIL-G-23827, general purpose aircraft, and instrument grease for heavy loads.
GJ-207	Aeroshell Grease No 22	Synthetic Hydrocarbon	Microgel	-85 to 400	400,000	MIL-G-81322, wide temperature range. Good low temperature torque.
GJ-264/ G-48	Kluber Asonic GHY72	Ester Oil	Polyurea	-40 to 360	500,000	Quiet running grease for moderate speeds, and loads. Good resistance to water washout, and corrosion.
GJ-284	Kluber Asonic HQ 72-102	Ester Oil	Polyurea	-40 to 360	600,000	Quiet running grease for moderately high speeds, and loads. Good resistance to water washout, and corrosion.
GJ-299	Kluber Asonic Q74-73	Synthetic Hydrocarbon Oil, Esteroil	Synthetic Organic	-40 to 330	500,000	Quiet running grease for moderate speeds, and loads.

* Values shown can be achieved under optimum conditions. Applications approaching these values should be reviewed by Barden Product Engineering.