



PETRO-CANADA LUBRICANTS

GUIDE TO GREASES

A HOLLYFRONTIER BUSINESS

	PCLI GREASE PRODUCT	GREASE THICKENER	COLOR	NLGI GRADE	BASE OIL VISCOSITY (cSt)	4 BALL EP (KG)	WATER WASH OUT (%)	PERFORMANCE SPEC / OEM APPROVAL	MIN. OP. TEMP. °C / °F	MAX. OP. TEMP. °C / °F	APPLICABLE INDUSTRY SEGMENTS										SUGGESTED APPLICATIONS		
											FLEET	GEN. MAN.	MINING	FORESTRY	CONSTRUCTION	STEEL MILL	DRILLING	AGRICULTURE	POWER GEN.	AUTOMOTIVE			
Synthetic Lithium Complex	PRECISION Synthetic EP00	Lithium Complex	●	00	507	315	27.8		-40	-40	170	338	x	x								Truck/trailer wheel-end bearings, slow speed leaky gear boxes	
	PRECISION Synthetic		●	1	130	250	8.0	GC-LB	-40	-40	170	338	x	x	x	x						Centralized systems on HD mining equipment, high performance wheel bearings, pumpjacks, low temp/viscosity	
	PRECISION Synthetic 220		●	2	220	315	7.2	GC-LB	-35	-31	170	338	x	x	x	x						Centralized systems on HD mining and forestry equipment, high performance wheel bearings, pumpjacks, higher temp/viscosity	
	PRECISION Synthetic Moly		●	1	130	400	9.8			-40	-40	170	338			x	x						Formulated for shock loaded mobile equipment in mining, forestry and construction applications
	PRECISION Synthetic Heavy 460		●	1	507	315	8.5			-30	-22	170	338		x		x						Paper machine bearings, heavily loaded, slow speed bearings
	PRECISION Synthetic Heavy 1500		●	1.5	1495	315	4.8			-20	-4	170	338			x	x						Plain and rolling element bearings, low speed, heavy load, high temps
PRECISION Synthetic EMB	●	2	114					-40	-40	170	338	x	x	x	x							Electric motor bearings, high speed antifriction bearings, fans, generators, non EP product	
Multi-Purpose Lithium and Lithium Complex	PRECISION XL EP000	Lithium	●	000	325	250			-25	-13	100	212			x	x						Low speed, leaky gear boxes, chain cases, bearings in centralized grease systems	
	PRECISION XL EP00		●	00	112	250			-35	-31	100	212	x									Centralized, on-board, truck chassis lubrication systems, gear drive lubricant for high visc., low temp mobility	
	PRECISION XL EP1	Lithium Complex	●	1	220	315	8.5	GC-LB	-25	-13	160	320	x	x	x	x						Heavy-duty and general-purpose bearings, low and high speed, wheel bearings, chassis points, steering linkages. Use EP1 for centralized lubrication systems serving both heavy-duty and general-purpose bearings and for colder temperatures	
	PRECISION XL EP2		●	2	220	315	3.8	GC-LB	-20	-4	160	320	x	x	x	x						Heavy-duty and general-purpose bearings, low and high speed, wheel bearings, chassis points, steering linkages. Use EP1 for centralized lubrication systems serving both heavy-duty and general-purpose bearings and for colder temperatures	
Lithium Moly	PRECISION XL EMB	Lithium	●	2	112				-25	-13	160	320		x	x	x						Electric motor bearings, high speed antifriction bearings, fans, generators, non EP product	
	PRECISION XL Heavy Duty		●	2	420	315	6.2		-10	14	160	320		x			x					Bearings subject to high load, shock loading, rolling mills	
	PRECISION XL 3 Moly EP1		●	1	210	800	5.0	Bucyrus Int. SD 4711, 3% Moly	-25	-13	135	275				x						Heavy-duty mining and construction applications including ball mills, conveyor and crusher bearings, off-highway operations	
	PRECISION XL 3 Moly EP2		●	2	403	800	1.0	Bucyrus Int. SD 4711, 3% Moly	-15	5	135	275				x							
	PRECISION XL 3 Moly Arctic		●	1	34	250	10.3			-45	-49	135	275				x						
	PRECISION XL 5 Moly EP0		●	0	133	620	13.5	Bucyrus Int. SD 4711, 5% Moly	-50	-58	120	248				x							
Lithium General Purpose	PRECISION XL 5 Moly EP1	Lithium	●	1	159	620	3.3	5% Moly	-30	-22	135	275		x	x	x						Designed for protection against vibration and shock loading, suitable for the lubrication requirements of Caterpillar lubricant specifications for 5130 (7TJ & 5ZL), 5230 (7LL) mining excavators and 994 (9YF) wheel loaders	
	PRECISION XL 5 Moly EP2		●	2	204	620	3.5	5% Moly	-25	-13	135	275		x	x	x							
	PRECISION GP EP1		●	1	159	250	9.25			-30	-22	135	275	x	x	x	x					Centralized greasing systems, heavily loaded conveyor bearings, mobile equipment, high speed industrial bearings	
	PRECISION GP EP2		●	2	159	250	3.8	LB	-25	-13	135	275	x	x	x	x						Low to moderate speed bearings at moderate temperatures	
Polyurea	PRECISION GP Moly EP2	Lithium	●	2	159	315	1.8	1.5% solid lubricants	-25	-13	135	275	x		x	x						Heavy-duty applications in industrial machinery or off-highway equipment where shock loading is encountered (graphite and moly)	
	PRECISION XL Rail Curve		●	1	24	400	2.8		-50	-58	120	248				x						Track-side mechanical lubrication systems (Portec & Lincoln), on-board lubrication systems (Clicomatic), switches, switch plates, fish plates, joint bars, and other railway applications where graphite greases are recommended	
Calcium Sulfonate Greases	PEERLESS Poly EMB	Polyurea	●	2	110			GE D6A2C23, ASTM D3336 >750 hrs	-30	-22	163	325	x	x	x	x						High-temp, long-life electric motor bearings, non EP product, high speed bearings	
	PEERLESS LLG	Calcium Sulfonate Complex	●	2	100	500	1.5	GC-LB	-20	-4	200	392	x	x		x						High temp, long life applications. Wheel bearings and automotive chassis, CV joints, ovens and kilns	
	PEERLESS OG0		●	0	38	315			-35	-31	163	325		x								Central Lubricating systems, low temp applications, wet conditions	
	PEERLESS OG1		●	1	53	400	2.8	GC-LB	-30	-22	163	325	x	x								Central Lubricating systems, automotive chassis, low temp applications, wet conditions	
	PEERLESS OG2		●	2	73	400	2.2	GC-LB	-25	-13	163	325		x	x	x							Wheel bearings, automotive chassis, forklift mast slides, power shovel bucket pins, mining scoop trams, rock crushers, farming equipment, pulp press roller bearings, wet conditions
	PEERLESS OG2 Red		●	2	73	500	2.8	GC-LB	-25	-13	163	325		x	x	x							Wheel bearings, automotive chassis, forklift mast slides, power shovel bucket pins, mining scoop trams, rock crushers, farming equipment, pulp press roller bearings, wet conditions
	PEERLESS OG Plus		●	2.5	78	500	0.1			-20	-4	163	325				x						Wet bearings for paper mills, pulp press roller bearings
	PEERLESS SVG102		●	1	80	620	1.5			-35	-31	163	325		x								Protection of valves against corrosion and deleterious effects of hydrogen sulphide, sour gas distribution, LPG and water injection systems
	PEERLESS 3 Moly 322		●	2	320	620	0.5			-15	5	170	338				x						Off-highway heavy-duty chassis, construction and mining equipment and industrial heavily loaded and low speed industrial bearings
	PEERLESS XCG-FLEX		●	1	329	500	1.5	AGMA CG-1 & CG-2		-20	-4	163	325		x	x							High-speed flexible couplings where severe centrifugal forces are generated, industrial couplings of the gear and flexible steel type
Multi-Purpose Aluminum Complex	VULTREX MPG EP 2		Aluminum Complex	●	2	493	400			-20	-4	160	320	x	x	x	x						Off-highway vehicle chassis, wheel bearings. Ball mill conveyor and crusher bearings. Low speed gear couplings. Slab caster bearings
	VULTREX MPG EP 1	●		1	473	400			-25	-13	160	320	x	x	x	x						Same as EP2 but designed for pumpability and centralized lubrication systems	
	VULTREX MPG Synthetic Arctic	●		0	151	400				-40	-40	120	248				x					Cold weather usage for forestry and logging shovels, draglines, excavators, blasthole drills and tracked equipment, forestry and logging equipment	
	VULTREX G-123	●		1	220	315				-25	-13	160	320	x		x	x						Heavy-duty truck components, wheel bearings, bushings, king pins, chassis
	VULTREX G-124	●		2	220	315				-20	-4	160	320	x		x	x						Heavy-duty truck components, wheel bearings, bushings, king pins, chassis
Drilling	VULTREX Rock Drill EP000	Lithium	●	000	129	200		Ingersoll-Rand, Joy and Parts Headquarters	-30	-22	100	212				x						Air operated rock drills and similar mining equipment	
	VULTREX Drill Rod Heavy	Barium	●	3	163	315			-12	10	135	275										Recommended for use on diamond drill rods to reduce friction between rods and rock strata	
	VULTREX API Modified Thread Compound	Lithium	●					API RP 5A3	-18	0	149	300										Protects the threads on casing, tubing connections and line pipe against galling during makeup and breakout	
Open Gear Lubricants	VULTREX Synthetic All Season 680	Aluminum Complex	●	0/00	760	620		CAT SD4713, P&H 464 OGL, Komatsu Slew Ring Gear	-40	-40	25	77										All season performance to lubricate gears, open gears, bearings, rollers and sliding surfaces on large mining shovels	
	VULTREX Synthetic 2200		●	0	2181	620		CAT SD4713, P&H 464 OGL Komatsu Slew Ring Gear	-15	5	40	104				x						Moderate temperature performance to lubricate gears, open gears, bearings, rollers and sliding surfaces on large mining shovels	
	VULTREX Heavy 6200		●	0	6489	800		CAT SD4713, P&H 464 OGL	-5	23	60	140				x							Electric mining shovel hoist gear lubrication, high temp lubrication for sliding surfaces on large mining shovels
	VULTREX Gear Shield® NC		●		4765	400		Foster Wheeler, Falk, Metso, FLS, Outotec								x							Open gear applications, mill gears, ball mills, rod and sag mills, kilns, dryers
Extreme High Temp	THERMEX™	Silica Gel	●	2	227	160				260+	500+											Bearings in conveyor chain carriers of enameling ovens, in glass manufacture and very high temperature fan bearings. Product is designed to vaporize slowly, leaving little or no deposit	

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