



HIGH-TEMP RED EP MULTI-PURPOSE GREASE

FOR HEAVY DUTY EXTREME PRESSURE APPLICATIONS

• Heavy-Duty Automotive, Off-Road & Industrial • Lithium Complex Grease

DESCRIPTION:

PEAK High-Temp Red EP Multi-Purpose Grease offers versatility and long life extreme pressure performance over a wide temperature range.

APPLICATIONS:

- Automotive - recommended for GM and Mack HD high temperature chassis and wheel bearings.
- Off-road & Industrial - recommended for heavy-duty plain and anti-friction bearing applications operating under high stress/high load conditions, coupled with high ambient temperatures.

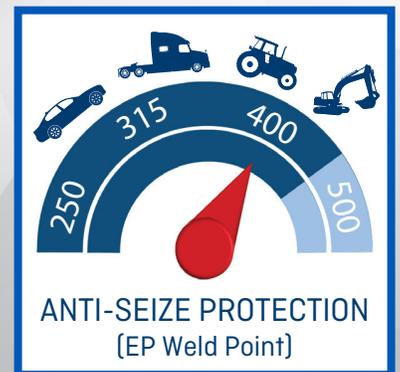
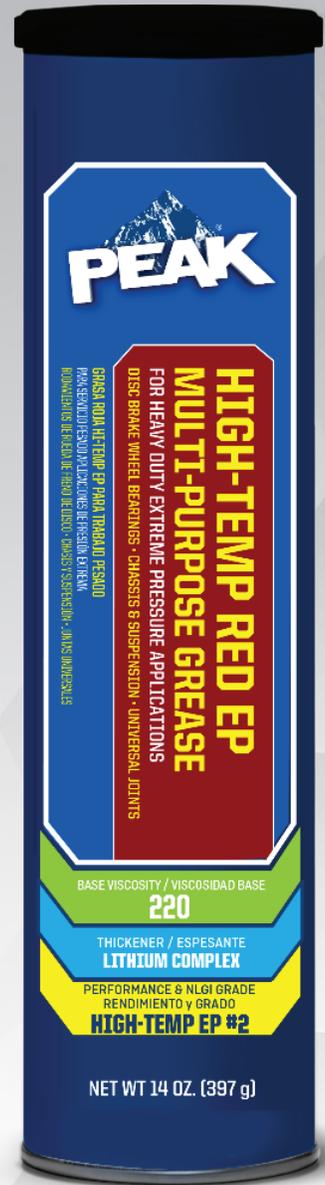
FEATURES:

- High Weld Point - Premium anti-seize protection
- Long Life Anti-Wear - Demonstrated performance
- Premium Oxidation Stability - 140 hr. high temp life

CLASSIFICATIONS:

- | | |
|---|--|
| Meets, or exceeds, the performance for: | • MACK: GC-G |
| • NLGI/ASTM D-4950: GC-LB | • John Deere: JDM J13C3, C3A, C6,
JDM J13E1, E4, E5 |
| • ISO 6743-9: L-X CEIB 2 | |
| • DIN 51502: KP2P-30 | |
| • General Motors: 1051344 | |

TYPICAL PROPERTIES	TEST METHOD	TYPICAL
NLGI Grade		2
NLGI Service Classification	ASTM D4950	GC-LB
Thickener	-	Lithium Complex
Color	-	Red/Tacky
Penetration, 60 strokes (range)	ASTM D217	265-295
Dropping Point, Minimum °C (°F)	ASTM D2265	> 282 (>540)
Base Viscosity, cSt @ 40°C	ASTM D445	220
Timken Load	ASTM D2509	60
Four Ball Wear Scar, mm	ASTM D2266	0.48
Four Ball EP Weld, Kg	ASTM D2596	400
Four Ball Load Wear Index	ASTM D2596	54
Wheel Bearing Leakage, grams loss	ASTM 4290	4.8
Oxidation Stability @100 hrs, psi	ASTM D942	3
Oil Separation, %	ASTM D1742	3.7
Water Washout % Loss @ 79°C (175°F), %	ASTM 1264	4.2
High Temp Wheel Bearing Life, hrs	ASTM D3527	140
Low Temperature Torque @ -40°, N-m	ASTM D4693	10
USS Mobility Grams/Minute @ OF	U.S.S. LT37	14
Grams/Minute @ -20F	-	1
Operating Temperature Range °C (°F)		-29 to 163 (-20 to 325)





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FOR HEAVY DUTY EXTREME PRESSURE APPLICATIONS

Part	Size	Unit UPC	Case Code	Units/SKU	Unit Wt (lbs)	SKU Wt (lbs)	Units/Pallet	Pallet Wt* (lbs)
PGRORCI	50/14 oz Cartridge	074804039672	074804139679	50	1	50	1800	1850
PGROR2I	12/1 lb. Tub	074804039689	074804139686	12	1.17	14	1248	1506
PGRORSI	Bucket 35 lb.	074804039696	-	1	39	39	42	1688
PGROR9I	Keg 120 lb.	074804062564	-	1	132	132	9	1238
PGROR1	Drum 400 lb.	074804039702	-	1	440	440	4	1810

(* Including pallet weight of 50lbs.)

GREASE SELECTION GUIDE

Anti-Friction Bearings

Operating Temperature	DN (Speed Factor) RPM x Bore Diameter	Base Viscosity cSt. @ 40°C	NLGI No. Grade
32°F to 86°F 0°C to 30°C	0 to 25,000	32 to 68	1 or 2
	25,000 to 75,000	22 to 32	2
	75,000 to 300,000	10 to 22	2
86°F to 140°F 30°C to 60°C	0 to 25,000	100 to 220	2
	25,000 to 75,000	46 to 68	2
	75,000 to 300,000	32 to 46	2 or 3
140°F to 194°F 60°C to 90°C	0 to 25,000	220 to 320	2
	25,000 to 75,000	220 to 320	2
	75,000 to 300,000	100 to 220	2 or 3
194°F to 248°F 90°C to 120°C	0 to 25,000	460 to 1000	2
	25,000 to 75,000	220 to 460	2
	75,000 to 300,000	220	2 or 3

Friction Bearings/Journals

Operating Temperature	DN (Speed Factor) RPM x Bore Diameter	Base Viscosity cSt. @ 40°C	NLGI No. Grade
32°F to 86°F 0°C to 30°C	<150	46 to 68	1 or 2
	150 to 300	32 to 46	2
	>300	10 to 32	2
86°F to 140°F 30°C to 60°C	<150	150 to 220	2
	150 to 300	100 to 220	2
	>300	46 to 68	2 or 3
>140°F >60°C	<150	1000	2
	150 to 300	220 to 460	2
	>300	150 to 220	2 or 3

BASE OIL VISCOSITY & NLGI GRADE

Most grease-lubricated applications are element bearings and grease base oil viscosity should be considered in selecting the appropriate grease.

Step 1. Identify bearing type and DN value (speed factor)

DN value equals the bearing's average diameter multiplied by its average operating speed (RPM) and applies a correction factor based on type of bearing. Consult equipment manufacturer if DN value is unknown.

Step 2. Determine average bearing operating temperature

Step 3. Look up the DN value and operating temperature in the appropriate charts above to determine optimal grease base oil viscosity and NLGI grade.

GREASE THICKENER COMPATIBILITY

Use this chart to determine compatibility if changing from one type of grease thickener to another. A complete application purge may be necessary. Follow equipment manufacturer's lubricant recommendations.

GREASE THICKENER COMPATIBILITY

	Aluminum Complex	Barium Complex	Calcium Complex	Calcium Sterate	Calcium 12-Hydroxy	Calcium Sulfonate	Clay (Non-Soap)	Lithium Sterate	Lithium 12-Hydroxy	Polyurea Conventional	Polyurea Shear Stable	Sodium Soap	
Aluminum Complex	C	I	I	C	I	B	I	I	I	C	I	C	I
Barium Complex	I	C	I	C	I	C	I	C	I	I	I	B	I
Calcium Sterate	I	I	I	C	I	C	C	C	B	C	I	C	I
Calcium 12-Hydroxy	C	C	C	C	B	B	C	C	C	C	I	C	I
Calcium Complex	I	I	I	B	I	I	I	I	I	C	C	C	I
Calcium Sulfonate	B	C	C	B	I	I	I	B	B	C	I	C	I
Clay (Non-Soap)	I	I	C	C	I	I	I	I	I	I	I	B	I
Lithium Sterate	I	I	C	C	I	B	I	I	C	C	I	C	I
Lithium 12-Hydroxy	I	I	B	C	I	B	I	C	I	C	I	C	I
Lithium Complex	C	I	C	C	C	C	I	C	C	C	I	C	I
Polyurea Conventional	I	I	I	I	C	I	I	I	I	I	I	C	I
Polyurea Shear Stable	C	B	C	C	C	C	C	B	C	C	C	C	I
Sodium Soap	I	I	I	I	I	I	I	I	I	I	I	I	I

C Compatible - No application purge required
B Borderline - Recommend full application purge using new grease
I Incompatible - Full application purge required using new grease



To order, please call
Old World Industries Customer Service at
1-800-323-8755

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