SYNTHETIC HI-TEMP EP MULTI-PURPOSE GREASE

WIDE TEMPERATURE, EXTREME PRESSURE, WATER RESISTANT FORMULA
FOR HEAVY DUTY APPLICATIONS OPERTAING IN EXTREME ENVIRONMENTS

• All Season HD Automotive, Off-Road & Industrial • Synthetic Lithium Complex Grease

DESCRIPTION:

PEAK Synthetic Hi-Temp EP Multi-Purpose Grease is an ALL SEASON, PAO based solution offering premium long-life protection and flows 5X faster in severe cold environments compared to conventional grease.

APPLICATIONS:

- Automotive – preferred grease for GM and Mack HD high temperature chassis and wheel bearings.
- Off-road & Industrial – recommended for heavy-duty plain and anti-friction bearing applications under high stress/high loads operating ambient temperatures.

FEATURES:

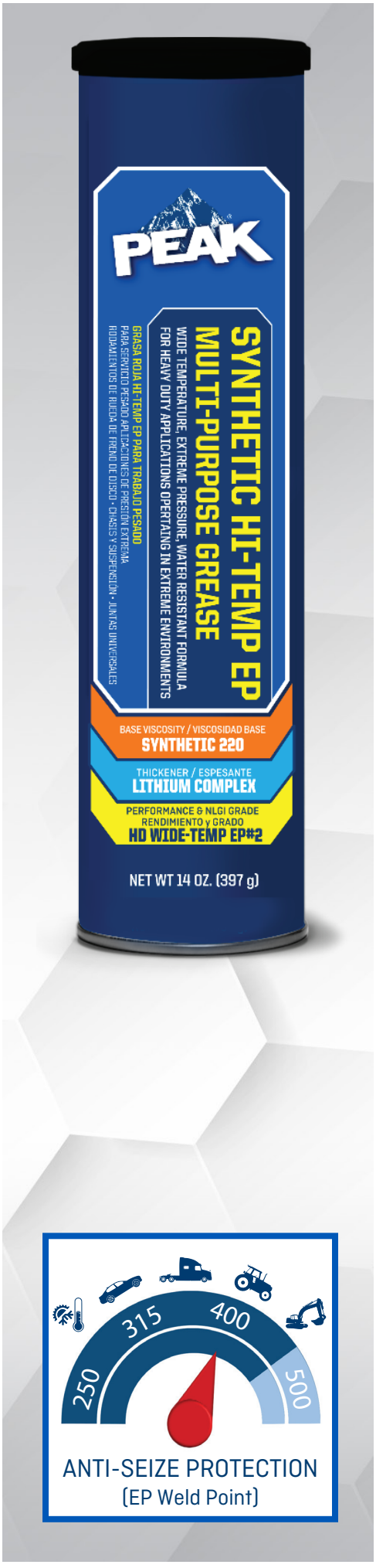
- Best Cold Flow – Mitigates need for seasonal changes
- High Weld Point – Premium anti-seize protection
- Premium Oxidation Stability – 140 hr. high temp life

CLASSIFICATIONS:

Meets, or exceeds, the performance for:

- NLGI/ASTM D-4950 GC-LB
- ISO 6743-9: L-X DFIB 2
- DIN 51502: KP2R-30
- General Motors 1051344
- MACK GC-G
- John Deere: JDM J13C3, C3A, C6, JDM J13E1, E4, E5

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	0.55
Four Ball EP Weld, Kg	ASTM D2596	400
Four Ball Load Wear Index	ASTM D2596	77
Wheel Bearing Leakage, grams loss	ASTM 4290	1.8
Oxidation Stability @100 hrs, psi	ASTM D942	3
Oil Separation, %	ASTM D1742	3.0
Water Washout % Loss @ 79°C (175°F), %	ASTM 1264	4.0
High Temp Wheel Bearing Life, hrs	ASTM D3527	140
Low Temperature Torque @ -40°, N-m	ASTM D4693	4
USS Mobility Grams/Minute @ 0F	U.S.S. LT37	23
Grams/Minute @ -20F		5
Operating Temperature Range °C (°F)	–	-34 to 177 (-30 to 350)



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SYNTHETIC HI-TEMP EP MULTI-PURPOSE GREASE

WIDE TEMP, EXTREME PRESSURE, WATER RESISTANT

Part	Size	Unit UPC	Case Code	Units/SKU	Unit Wt (lbs)	SKU Wt (lbs)	Units/Pallet	Pallet Wt* (lbs)
PGROS14I	50/14 oz. Cartridge	074804072877	074804172874	50	1	50	1800	1850
PGROS1LBI	12/1 lb. Tub	074804042931	074804142938	12	1.17	14	1248	1506

(*) 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 COMPATIBLITY

	Aluminum Complex	Barium Complex	Calcium Sterate	Calcium 12-Hydroxy	Calcium Complex	Calcium Sulfonate	Clay (Non-Soap)	Lithium Sterate	Lithium 12-Hydroxy	Lithium Complex	Polyurea Conventional	Polyurea Shear Stable	Sodium Soap
Aluminum Complex		I	I	C	I	B	I	I	I	C	I	C	I
Barium Complex	I		I	C	I	C	I	I	I	I	I	B	I
Calcium Sterate	I	I		C	I	C	C	C	B	C	I	C	I
Calcium 12-Hydroxy	C	C	C		B	B	C	C	C	C	I	C	I
Calcium Complex	I	I	I	B		I	I	I	I	C	C	C	I
Calcium Sulfonate	B	C	C	B	I		I	B	B	C	I	C	I
Clay (Non-Soap)	I	I	C	C	I	I		I	I	I	I	B	I
Lithium Sterate	I	I	C	C	I	B	I		C	C	I	C	I
Lithium 12-Hydroxy	I	I	B	C	I	B	I	C		C	I	C	I
Lithium Complex	C	I	C	C	C	C	I	C	C		I	C	I
Polyurea Conventional	I	I	I	I	C	I	I	I	I	I		C	I
Polyurea Shear Stable	C	B	C	C	C	C	B	C	C	C	C		I
Sodium Soap	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 — Incompatable - Full application purge required using new grease

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FILE NAME: 202003_ARF12211_PEAK GREASE SPEC SHEETS.ai

Project Initiator: Jess

DESIGNER NAME:	Date:	ROUND #:	# ROUNDS SENT TO PRINTER
Kevin	03/20/20	1	N/A
Amy	06/04/20	2	
	10/22/20	3	
	10/30/20	4	

FILE SPELL CHECKED	CMYK COLORS	SPOT COLORS	GCMI COLORS	Total Number Of Colors
[X] 03/20/20	[X]	PMS 2935 Blue PMS 2945 Blue PMS 654 Blue	List GCMI	7

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