

Engen Genlex Series

Industrial Lithium Complex Grease



EXTREME
PRESSURE



CORROSION
PROTECTION



WATER
RESISTANT



HIGH
TEMPERATURE

Description

Genlex EP 42 is a polymer based lithium complex, NLGI 2 grease developed specifically for high temperature industrial applications. This extra high performance grease was exposed to extended tests in paper and sugar mills have produced excellent results and have led to widespread usage in general industry. It has a high load carrying capability and strongly resists water washout, even at elevated temperatures.

Genlex EP 42 MT is a premium NLGI 2 grease developed for heavy duty applications where good adhesive properties are needed. This extra high performance grease uses a polymer based Lithium Complex thickener. This gives the grease its excellent high temperature performance and compatibility with other Lithium, Lithium-Calcium or Lithium complex greases. Genlex EP 42 MT has a drop point of 260 °C minimum. The grease is especially suited to the lubrication of heavy duty components subjected to either oscillating or rotating motion, shock loading and the ingress of water. Genlex EP 42 MT is fortified with 3% lubricant quality Molybdenum disulphide, which gives it additional EP/Anti-Wear and friction reducing properties, and therefore meets Caterpillar and other makes of off-road equipment requirements.

Application

Genlex EP 42 is recommended for large plain and antifriction bearings and other mechanisms requiring a high temperature lithium NLGI 2 grease such as slides, cams etc. The excellent adhesive quality of this grease improves its stay-put properties compared to conventional greases. It has good pumpability and can be used in centralised lubrication systems. Operating temperature range from -15°C to +160°C.

Genlex EP 42MT grease was formulated primarily for the lubrication of contractor equipment such as chassis, highly loaded kingpins, U-joints, bucket pins, fifth wheels and open gears etc. However, field experience has shown that it will perform equally well in a variety of other heavy-duty applications in mining and other areas under severe operating and climatic conditions. Genlex EP 42 MT can be applied by mechanical and hand operated equipment. Operating temperature range from -15°C to +160°C.

Benefits

Genlex EP 42

- Good thermal and oxidation stability
- Extreme pressure capability
- Resistance to water and chemical process fluid contamination
- Superior water wash-out and spray off features
- Excellent adhesive and cohesive properties
- Superior rust and corrosion protection
- Long service life with reduced relubrication intervals
- Reduced leakage

Due to continual product research and development, the information contained herein is subject to change without notification. Refer to the Material Safety Data Sheet (MSDS) for information on the safe handling and use of this product.

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Benefits

Genlex EP 42MT

- Excellent adhesive & cohesive properties
- Superior Rust and oxidation protection
- Good high thermal and oxidation stability
- Reduced relubrication intervals
- Outstanding anti-wear/EP performance
- High resistance to water and chemical process fluid contamination
- Reduced leakage
- Friction reducing properties

Pack Sizes

Genlex EP 42

- 180kg drum
- 50kg keg
- 18kg pail
- 30x500g sachets in pail

Genlex EP 42MT

- 810kg Fluid Bag
- 180kg drum
- 50kg keg
- 18kg pail

Typical Physical Characteristics

Property	Test Method	Units	Typical Results	
			42	42MT
Engen Genlex EP				
NLGI Grade	ASTM D217		2	2
Thickener Type			Lithium Complex	Lithium Complex
Colour	Visual		Brown	Grey
Penetration, @ 25°C Worked	ASTM D217	0.1 mm	275	274
Dropping Point	IP 396	°C	280	280
Viscosity of Base Oil @ 40°C	ASTM D445	cSt	380	380
Timken OK Load	IP 326	Lbs	60	60
Oil Separation	ASTM D 1742	%	5	5
4-Ball Weld Load	DIN 51350:4	N	3000	3000
4-Ball Wear Scar 40kg/1hr	DIN 51350:5	mm	0.5	0.5
20,000 Strokes Worked Penetration	ASTM D217	% Change	10	10
Shell Roll Stability – 24hrs	ASTM D1831	% Change	10	10
Density	IP PM-CS/03	g/ml	0.92	0.92
Wheel Bearing Leakage @ 105°C	ASTM D1263	%	5	5
Wheel Bearing Leakage @ 163°C	ASTM D1263	%	7	7
Water Spray off	ASTM D4049	%	20	20
Molybdenum Disulphide Content	Calculate	%	--	3
Copper Corrosion	ASTM D4048		1A	1A
Oxidation Stability @ 100hrs	ASTM D942	kPa Drop	50	50

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