

SYNTH PD-3, 2, 1, 0, 00 (SG -380) (Synthetic lithium-complex grease)

(Synthetic base oil + Lithium-Complex + Mox-Active + MFT + Special EP Additive)

Conforms is approved to: SG-380

DESCRIPTION:

SYNTH PD grease is a high performance Lithium Complex soap thickener-based grease with incorporating high dosage of MFT (Micro flux Trans) & Mox-Active (Organo Molybdenum Complex) an improvement additive system with extreme pressure additive and combination of high viscosity synthetic base oils are forming a stable lubricant film to withstand high continuous loads, high shock loads and heavy vibrations. Due to special synthetic additive package this grease provides outstanding protection against wear, rust, corrosion and high temperature degradation and also gives resistance to water washout for equipment protection, extremely smooth surfaces resulting in minimum wear and reduces maintenance cost and extend the life of equipment and very low co-efficient of friction elements avoiding seizure & expensive repairs. It also provides optimum wear protection under extreme loads at high or low speeds. The wax-free feature of the synthetic base oil allows for low temperature mobility/pumpability and very low starting and running torque values. Also, the traction property of the synthetic base fluid in these greases is considerably lower than mineral oil, allowing for temperature reductions in the load zone of rolling element bearings.

APPLICATIONS

- **SYNTH PD** is recommended for industrial applications which need a lubricant that can perform normal functions yet go far beyond in terms of high and low temperatures and long-life performance. **NLGI-2 & NLGI-3** grease is stiffer grease recommended for applications where wide temperature, multi service, maximum protection against penetration of water or solid contaminants is required has the cold temperature pumping resistance.
- **SYNTH PD** is also available in **NLGI-1,0 & 00**, and is recommended for industrial applications at both high and low temperatures. It will provide outstanding bearing protection under heavy loads at low to moderately high speeds, and where water is a factor. **SYNTH PD** has performed extremely well in steel mill and paper mill applications. It also has proven to be an exceptional severe service automotive grease.
- It is recommended for sealed for life bearings, rolling element bearings, high-speed antifriction bearings, electric motors, fans, air-conditioning bearings, automotive alternator/generator/starter motor bearings and other wide range of industrial applications
- **SYNTH PD** is recommended for anti-friction bearings where high resistance to water washing is needed with grease reservoir and for leaky gear boxes. This grease is easily pump able in central lubrication systems; it does not channel on gears running at high speeds when using.

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ADVANTAGES & BENEFITS

SYNTH PD synthetic grease provides the following advantages & benefits when compared to other mineral oil greases intended for similar service.

- Better bearing protection and lower grease consumption & Immediate monetary savings.
- Extends bearings life and gives longer relubrication intervals & also reduce energy consumption. Operating range of **-40°C to + 240°C**.
- High protection against seizure and wear, avoiding expensive repairs.
- Reduced wear under heavy shock loads & vibration for good equipment reliability.
- Protection against rust and corrosion, resistance to water washout for equipment protection and outstanding structural stability in the presence of water
- Good pump ability in centralized systems, Effective leakage control.
- Excellent wear protection under heavy loads and high temperatures
- Excellent flow and pump-ability for automatic centralized and Individualized systems.

PROPERTIES OF SYNTH PD GREASE

SPECIFICATIONS	SYNTH PD-3	SYNTH PD-2	SYNTH PD-1	SYNTH PD-0	SYNTH PD-00
NLGI Grade available	3	2	1	0	00
Work Penetration	235	280	325	370	415
Base Oil Type	Synthetic oil (PAO)				
Colour & Appearance	Yellowish Brown, Blue or Red, Smooth & Tacky				
Thickener	Lithium Complex + EP				
Solid Lubricants	MFT & Mox-Active + 3% to 5% PAO based Ester				
Base Oil@ 40°C	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
Drop Point °C	+280	+280	+280	+280	+280
Operating-Temperature °C	-40°C to 240°C				
Copper Corrosion	1a	1a	1a	1a	1a
4 Ball Weld Load kgs	350-380	350-380	350-380	350-380	350-380
Four Ball Wear Test, Scar dia., mm, max	0.65	0.65	0.80	0.80	0.80
Load Wear Index	45	45	49	49	49
Water Washout, 79°C wt. %	4	4	3	3	3

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