

## PD-2 SYNTH (Aeronautics & Defence synthetic lithium complex grease)

*(Synthetic base oil + Lithium-Complex + Mox-Active + MFT + Special EP Additive)  
Aeronautics & Defence wheel bearing wide temperature range synthetic grease*

### DESCRIPTION:

**PD-2 SYNTH** is high performance lithium complex soap thickener-based grease formulated with high quality 100% synthetic PolyAlphaOlefin (PAO) base oil are forming a stable lubricant film to withstand mechanical stability, high continuous loads, high shock loads and heavy vibrations. **PD-2 SYNTH** contains high dosage of PAO synthetic ester additives with white solid lubricants MFT (Micro flux Trans) & Mox-Active (Organo Molybdenum Complex) an improvement additive system are forming a stable lubricant film to withstand high continuous loads to creates a passive film on friction surfaces before friction occurs, optimum wear protection and an extremely low coefficient of friction even under extreme pressures, heavy vibrations & high shock loads. Due to special synthetic additive package antioxidants, anti-corrosion, rust inhibitors & special EP additives this grease 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 speeds.

### APPLICATIONS

- **PD-2 SYNTH** gives wide range of applications include aircraft wheel bearing of civil aircraft exposed to high load and high temperature during braking, as well as corrosive runaway de-icing fluids & landing gears, engine accessories, control system, actuators, screw-jacks, servo mechanisms. electric motors, helicopter rotor bearing, instruments, airframe lubrication, hinge pins, static joints, 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, *Aeronautics & Defence* applications.
- **PD-2 SYNTH** grease is used for continuous high temperatures or intermittent very high temperatures is experienced. Wide operating temperature range: **-54°C to +175°C**.
- **PD-2 SYNTH** is recommended also 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.

### ADVANTAGES & BENEFITS

- Better bearing protection and lower grease consumption & Immediate monetary savings.
- Extends bearings life and gives longer relubrication intervals & also reduce energy consumption.
- High protection against seizure and wear, avoiding expensive repairs.
- Reduced wear under heavy shock loads and vibration for good equipment reliability and availability.
- Good protection against rust and corrosion even in presence of salt water.
- Resistance to water washout for equipment protection.
- Excellent flow and good pump-ability for automatic centralized and Individualized systems.
- Thickener does not melt extremely high dropping point and high-pressure loading capacity.
- Effective leakage control, will not soften and leak from bearings exposed to high temperature.
- Resistance to water washing, sea and salt water, steam and humid conditions.
- Low consumption, Immediate monetary savings, extends bearings life and gives longer relubrication intervals. High protection against seizure and wear, avoiding expensive repairs.

## PERFORMANCE STANDARD MEETS:

- SAE AMS-3058,
- Airbus AIMS-09-06-003,
- Airbus CML 03GCC1,
- MIL-PRF-32014A,

For a full listing of equipment approval and recommendations, please consult Powermaxx Lube India technical team.

## PROPERTIES OF PD-2 SYNTH

SPECIFICATIONS	TEST METHODS	PROPERTIES
NLGI Grade	-	2
Work Penetration Worked Unworked	ASTM-D217	280 270
Base Oil Type	-	100% Synthetic oil (PAO)
Colour & Appearance	Visual	Yellowish Brown, Smooth & homogenous
Thickener	-	Lithium Complex + EP
Solid Lubricants	-	MFT & Mox-Active + 3% to 5% PAO based Ester
Base Oil@ 40	ASTM-D445	90 - 110
Drop Point	ASTM-D566	+280
Operating-Temperature	-	-54°C to 175°C
Copper Corrosion	ASTM-D4048	1a
Extreme Pressure 4 Ball Weld Load kgs	ASTM-D2596	+400
Steel on steel wear, 4-ball test	ASTM-D2266	0.56
Oil Separation 30 hrs @ 175°C %	ASTM-D6184	3.1
Evaporation Loss 22 hrs @ 175°C %	ASTM-D2595	3.7
Low Temperature Torque @ 54°C Starting Running	ASTM-D1478	0.8 0.15
Water washout @ 79°C %	ASTM-D1264	max 1.5
Oxidation stability 100 @ 99°C 500 @ 99°C	ASTM-D942	max 35 max 105
Emcor Rust Prevention, 3% NaCl	ASTM-D6138	0/0

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