

TECHNICAL DATA SHEET | GREASE

Engen Super WB Grease

Automotive Lithium Complex Grease



Extreme Pressure



High Temperature



Corrosion Protection



Water Resistant



PETRONAS

Engen is a member of the PETRONAS Group

Description

Super Wheel Bearing (WB) Grease is a superior quality, polymer based lithium complex grease specifically designed for transport industry and automotive wheel bearing applications and has a high level of chemical stability, excellent structural stability, high resistance to water washing and provides maximum protection against wear and shock loads.

Application

Designed for use under severe operating conditions, Super Wheel Bearing Grease is recommended for use in rolling element bearings; especially wheel bearings where high cyclic stresses and shock loading are encountered, and the heavy use of disc brakes generate high operating temperatures.

It is recommended for the lubrication of boat trailer wheel bearings in both fresh water and salt water environment and may also be used for general automotive applications such as steering and chassis fittings, grease cups and water pump bearings. Continuous operating temperature range from -15°C to +160°C. Short term exposure up to 200°C.

Benefits & Features

- High resistance to water wash-out and spray off.
- Seals against dust.
- Excellent protection against rust and corrosion (especially sea water).
- Long service life and good oxidation stability.
- Excellent load carrying ability.
- Good retention under shock loading.

Performance Level

Meets or exceeds the following Industry Standards:

- DIN 51502, KP2.5N-20



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Typical Physical Characteristics

ENGEN SUPER WB GREASE			
PARAMETERS	METHODS	UNITS	TYPICAL VALUES
DIN Classification	DIN 51502	-	KP2.5N-20
NLGI Grade	ASTM D217	-	2.5
Thickener Type	-	-	Lithium Complex
Colour	Visual	-	Green
Base Oil Type	-	-	Mineral
Penetration, @ 25°C Worked	ASTM D217	0.1 mm	255
Dropping Point	IP 396	°C	>260
Viscosity of Base Oil @ 40°C	ASTM D445	cSt	540
4-Ball Weld Load	DIN 51350:4	N	3000
4-Ball Wear Scar 40kg/1hr	DIN 51350:5	mm	0.4
Timken OK Load	IP 326	Lbs	60
Oil Separation	ASTM D 1742	%	5
20,000 Strokes Worked Penetration	ASTM D217	% Change	10
Shell Roll Stability – 24hrs	ASTM D1831	% Change	10
Density	IP PM-CS/03	g/ml	0.95
Water Spray off	ASTM D4049	%	20
Wheel Bearing Leakage @ 105°C	ASTM D1263	%	5
Wheel Bearing Leakage @ 163°C	ASTM D1263	%	7
Copper Corrosion	ASTM D4048	-	1A
Oxidation Stability @ 100hrs	ASTM D942	kPa Drop	50

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to Engen's specification, variations in these characteristics may occur.

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Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water. For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS.

Safety Data Sheets are available for all our products and should be only be consulted for appropriate information regarding storage, safe handling and disposal of the product. No responsibility shall be taken by either Engen or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortuous action, in connection or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information.

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