MAK LANTHAX BRIGHT EP GREASE

Premium quality extreme pressure grease for automotive and industrial application

MAK Lanthax Bright EP Grease is a premium quality lithium based. These are formulated with high quality base oils and lithium soap thickener and also incorporated with extreme pressure additives to handle the most severe loads in a wide range of automotive and industrial applications. The grease has a recommended operating temperature range from -20^{O}C to 130^{O}C. MAK Lanthax Bright EP Grease has high degree of resistance to mechanical breakdown and oxidative degradation. It offers good rust protection and excellent water washout resistance.

Grades: MAK Lanthax Bright EP Grease is available in the following NLGI Grades – **00, 1, 2** and **3**.

Applications:
MAK Lanthax Bright EP Grease is recommended for all automotive and industrial heavy duty applications where heavy loads are present. MAK Lanthax Bright EP Grease 2 and 3 are suitable for lubrication of rolling element and plain bearings as well as hinges and sliding surfaces in industrial applications. It is also suitable for slide, ball, roller bearings, wheel bearings, universal joints and chassis in automotive applications. MAK Lanthax Bright EP Grease 1 and 2 can be used in centralised lubrication systems for lubrication of heavy duty plain and rolling element bearings. MAK Lanthax Bright EP Grease 00 grade is specifically developed for lubrication of gear cases, chains, bearings etc. where a softer grease is required.

Performance/ Benefits:

Excellent Load Carrying Ability – offers excellent extreme pressure properties making it the ideal grease to protect and lubricate the machine components even under heavy loads.

Outstanding Oxidation Stability – outstanding resistance to the effects of oxidizing agents. Resists sludge and deposit formation. Ensures reliability, longer operating life and less maintenance.

Good Shear Stability – provides ability to resist early shear and enable to work longer under harsh working conditions.

Strong Rust Protection – protects the bearing components from rust and corrosion in humid environments and enhances their life.

Assured Washout Resistance – offers excellent water washout resistance thereby providing superior lubrication and protection in wet environments.

Excellent Mechanical Stability – offers excellent protection by avoiding loss of consistency during severe operations.

Very Good Pumpability – good pumpability even at low temperatures makes it the ideal grease for centralised lubrication systems.

Heavy Metal Free – does not contain Lead and other heavy metals considered harmful to human health and environment.

Performance Level/ Specification:

- IS 7623: 1993 EP Type [Reaffirmed 2016]
- IPSS: 1-09-005-99

Storage & Handling:
The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing. Shelf life is 2 yrs. under protected conditions.

Health & Safety:
It is unlikely to be hazardous when properly used in recommended applications. Contamination of the grease from other oils, greases, chemicals, dirty water etc. can occur during the use. It should be avoided. Regular monitoring of the in-use product is recommended.

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Typical Physico-Chemical Data: MAK Lanthax Bright EP Grease

Characteristics	Method	00	1	2	3
NLGI	--	00	1	2	3
Appearance	Visual	Smooth	Smooth	Smooth	Smooth
Color	Visual	Pale Yellow	Pale Yellow	Pale Yellow	Pale Yellow
Type of Thickener	-	Lithium	Lithium	Lithium	Lithium
Worked penetration,@ 25 ^{O}C 60 strokes	ASTM D217	415	325	285	230
Drop Point, ^{O}C	ASTM D2265	140	185	190	193
Base Oil K.V. at 40 ^{O}C, cSt	ASTM D445	160	160	160	160
Oxidation Stability(100 h), drop in pressure, kg/cm^2	ASTM D942	0.44	0.55	0.55	0.55
Operating Temperature Range, ^{O}C	-	-20 to 90	-20 to 130	-20 to 130	-20 to 130
Timken OK Load, kg, min	ASTM D2509	20	20	20	20
Copper Corrosion at 100 ^{O}C for 24 hrs.	ASTM D4048	Negative	Negative	Negative	Negative

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