

# MAK HITEMP XTRA SM GREASE

High performance heavy duty grease for sugar mill journal bearing

MAK Hitemp Xtra SM Grease is a premium quality clay thickened non-soap base smooth and tacky grease formulated using superior quality high viscosity mineral base oil and high performance additives. Sugar mill journal bearings work under arduous conditions and the lubricant has to bear severe conditions of loading and water washout. MAK Hitemp Xtra SM Grease is characterised by very high dropping point, outstanding oxidation stability and excellent water resistance property. It also offers very high load carrying ability and good rust and corrosion protection. The grease is fortified with 3% molybdenum disulphide (MoS<sub>2</sub>) as solid lubricant for protection of moving parts under severe shock load conditions.

## Applications:

MAK Hitemp Xtra SM Grease is specially recommended for lubrication of crushing mill journal bearings of sugar mill industries. It is also suitable as industrial grease for arduous slow speed plain bearing applications.

## Performance/ Benefits:

**High Drop Point** – high drop point demonstrates ability to handle high temperatures and provides excellent high temperature performance.

**High Oxidation Stability** – offers high resistance to oxidation and thermal break down. Ensures reliability, longer operating life and less maintenance.

**Excellent Shock Load Carrying Ability** – due to presence of MoS<sub>2</sub> in the formulation, it has good shock loading carrying ability, making it suitable to protect and lubricate the machine components even under intermittent loads.

**Excellent Water Resistance** – offers excellent water washout resistance and does not get washed away due to water ingress/ contact thereby providing superior lubrication and protection in wet environments.

**Very Good Pumpability** – exhibits very good pumpability even at low temperatures making it ideal for centralised lubrication systems.

**Reduced Consumption** – extra tackiness of the grease combined with high viscosity base oil forms a strong tenacious film of the journal bearing surface and minimises grease loss as compared to conventional oils/ greases.

**Excellent Rust Protection** – antirust and anticorrosion additives in the formulation impart ability to protect bearings from rusting and early degradation. Hence longer bearing life.

## Performance Level/ Specification:

- Proprietary Grade

## Typical Physico-Chemical Data: MAK Hitemp Xtra SM Grease

Characteristics	Method	Value
NLGI Grade	-	2
Appearance	Visual	Smooth
Color	Visual	Grey Black
Type of Thickener	-	Clay
Worked Penetration, @ 25°C, 60 strokes	ASTM D217	285
Drop Point, °C	ASTM D2265	>280
Base Oil Kinematic Viscosity, 40 °C, cSt	ASTM D445	1200
Operating Temperature Range, °C	-	0 to 170
MoS <sub>2</sub> Content, % wt.	IS 1448 P:58	3
Copper Corrosion at @100°C for 24 hrs.	ASTM D4048	Negative

## 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.