

# MAK SPRAYGREASE '0' HMF

## Description

MAK SPRAYGREASE '0' HMF is a sprayable service lubricant for open gears, designed for lubrication of open gears operating in adverse conditions. Usage of superior variety eco friendly anti-wear and extreme pressure additive package ensures extended life of open gears subject to high loads, shock loads, extreme ambient temperatures and very dusty environment. The additive package used takes into consideration flowability requirements for suitable dispensing through sensitive sprayable grease dispensing systems

## Application

MAK SPRAYGREASE '0' HMF is suitable for lubrication of all types of large and small open gears on kilns, mills, mixers, etc. working under heavy loads and prone to excessive pitting, scaling or abrasive wear. This grease is also recommended for steel wire ropes to reduce wear due to repeated flexions. Other typical applications include open gear couplings of bulldozers, gear wheels and spur gears of cranes, excavators, winches and crushing machines, reduction gears and shafts of heavy duty crank presses, highly stressed racks and worm gears, and in industries like Cement Plants, Steel Plants, Sponge Iron Plants, Sugar Mills, Crushing Mills, Refractories, Ports, Mines, Metallurgical and other heavy industries. MAK SPRAYGREASE '0' HMF may be applied by direct / indirect immersion or spraying / brushing

## Benefits

- High Drop point-With a drop point, it is well suited to lubricate components efficiently under high temperature conditions also
- Good Antiwear properties- antiwear additives in grease lubricant provides extra protection to the components against components wear and hence increases its life
- Excellent Load Carrying abilities- this grease has good extreme pressure properties, making it suitable to protect and lubricate the machine components even under high loads
- Smooth & Tacky- Extra tackiness makes grease a good sealant and protects components from outside dust and contaminants

## Performance Level

- Proprietary

## Technical Specifications

Characteristics	Unit	Test Method	MAK SPRAYGREASE 'O' HMF
Colour	-	Visual	Black
Texture	-	Visual	Smooth
Worked Penetration at 25 °C , 60X	-	ASTM D 217	400
Drop Point	°C	ASTM D 566	198
Behaviour Towards Water	Rating	DIN – 51807	0-40/ 0-90
Four Ball EP Test a) Weld Load b) Wear Scar Dia	kg mm	IP 239 ASTM D 2266	>620 0.35
Timken OK load	lbs	ASTM D 2509	45
FZG Test, A/2.76/50 a) Damage Load Stage b) Specific Wear Rate	- mg/ kwh	DIN 51354	>12 <0.20
Base oil: a) Type b) Viscosity at 40 °C	cSt	ASTM D 445	Premium quality Mineral oil 500
Temperature Resistance of Dry Lubricating Film	°C		> 250

All the mentioned values are typical which may vary from batch to batch

## Storage and Handling

- Indoor Storage is always preferable
- Barrels should be kept vertically and should be kept away from dusty or heated areas.
- Lid should not be left open and during handling any contact with dust must be avoided

## Health & Safety

This grade is not hazardous under normal conditions of use. For further guidance Material Safety Data Sheet (MSDS) may be referred

## Advice

For any further advice on applications or otherwise, please contact the nearest Bharat Petroleum territory office or Technical Services department at the address given below

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