

## **Product Data Sheet**

# **MAK FILMBEAR EP**

ISO VG: 32, 46, 68, 100, 150 & 460

Non ISO VG: 381

#### DESCRIPTION

These oils are formulated from highly refined, solvent treated, superior quality base oils and selectively chosen additives. These oils are especially suitable for specific conditions of Indian Integrated Steel Plants, where they are subjected to severe load in presence of continuous water circulation and foreign material under high temperature.

## **APPLICATIONS**

These are premium quality extra heavy duty circulating oils especially developed for high speed No-Twist Rod Mills, manufactured by M/s Morgan Construction Co., U.S.A. However, these oils are also suitable for other Rolling Mill Circulating Systems.

## PERFORMANCE BENEFITS

- Impart outstanding anti-wear, anti-rust and anti-scuffing properties
- Excellent demulsibility
- Posses good thermal stability

## PERFORMANCE LEVEL

• Proprietary grades

	IS		Typical Figures				
Characteristics	1448	32	46	68	100		
Appearance		Clear & Bright	Clear & Bright	Clear & Bright	Clear & Bright		
Density at 15° C	P:16	0.8549	0.8586	0.8620	0.8658		
K.V at 40° C, cSt	P:25	32.6	46.1	68.2	100.9		
Viscosity Index	P:56	103	102	101	101		
Pour Point, °C	P:10	-15	-15	-15	-12		
Flash Point, (COC), °C	P:69	232	236	240	244		
Copper Strip Corrosion Test at 100°C for 3 hrs.	P:15	1a	1a	1a	1a		
Foaming Characteristics/Stability a) Sequence I b) Sequence II c) Sequence III	P:67	Nil Nil Nil	Nil Nil Nil	Nil Nil Nil	Nil Nil Nil		



# **Product Data Sheet**

	IS	Typical Figures			
Characteristics	1448	150	381	460	
Appearance		Clear & Bright	Clear & Bright	Clear & Bright	
Density at 15° C	P:16	0.8730	0.8946	0.8959	
K.V at 40° C, cSt	P:25	150.3	381.5	460.6	
Viscosity Index	P:56	98	96	95	
Pour Point, °C	P:10	-9	-6	-6	
Flash Point, (COC), °C	P:69	248	260	266	
Copper Strip Corrosion Test at 100°C for 3 hrs.	P:15	1a	1a	1a	
Foaming Characteristics/Stability a) Sequence I b) Sequence II c) Sequence III	P:67	Nil Nil Nil	Nil Nil Nil	Nil Nil Nil	

#### **Health and Safety**

These oils are not hazardous under normal conditions of use. For further guidance appropriate Material Safety Data Sheet may be referred.

**Bharat Petroleum Corporation Ltd.** 

A' Installation, Sewree (East), Mumbai – 400 015 Phone: 022-24176354, Fax: 022-24182511 / 24166512 email: z\_techservices@bharatpetroleum.in

Edition: R&D / Indl / 004 / Issue 1 / Oct, 2008 Technical