

Product Data Sheet

MAK FILM BEAR

ISO VG: 32, 46, 68, 100, 150, 220, 320 & 460

Non ISO VG: 81, 121, 176 & 257

DESCRIPTION

These oils have been specially formulated from carefully selected, highly solvent refined, high viscosity index, straight mineral base oils.

PERFORMANCE BENEFITS

- Possess anti-oxidation, anti-rust and thermal stability properties
- Exhibits outstanding demulsibility

APPLICATIONS

These oils are recommended for oil film bearings operating at high temperature conditions and with possibility of water ingress into the oil system.

PERFORMANCE LEVEL

- IPSS : 1-09-001-97

Our grades meet above specification for the respective viscosity grades.

Characteristics	IS 1448	Typical Figures		
		32	46	68
Appearance	--	Clear & Bright	Clear & Bright	Clear & Bright
Density at 15° C	P:16	0.8541	0.8582	0.8614
K.V at 40° C, cSt	P:25	32.8	46.2	68.1
Viscosity Index	P:56	103	102	101
Pour Point, °C	P:10	-15	-15	-15
Flash Point, (COC), °C	P:69	230	234	238
Copper Strip Corrosion Test at 100°C for 3 hrs.	P:15	1a	1a	1a
Foaming Characteristics/Stability	P:67			
a) Sequence I		Nil	Nil	Nil
b) Sequence II		Nil	Nil	Nil
c) Sequence III		Nil	Nil	Nil

Characteristics	IS 1448	Typical Figures		
		81	100	121
Appearance	--	Clear & Bright	Clear & Bright	Clear & Bright
Density at 15° C	P:16	0.8638	0.865	0.8682
K.V at 40° C, cSt	P:25	81.5	100.6	121.1
Viscosity Index	P:56	101	101	100
Pour Point, °C	P:10	-15	-12	-12
Flash Point, (COC), °C	P:69	240	244	248
Copper Strip Corrosion Test at 100°C for 3 hrs.	P:15	1a	1a	1a
Foaming Characteristics/Stability	P:67			
a) Sequence I		Nil	Nil	Nil
b) Sequence II		Nil	Nil	Nil
c) Sequence III		Nil	Nil	Nil

Product Data Sheet

Characteristics	IS 1448	Typical Figures		
		150	176	220
Appearance	--	Clear & Bright	Clear & Bright	Clear & Bright
Density at 15° C	P:16	0.8722	0.8778	0.8892
K.V at 40° C, cSt	P:25	150.8	176.4	220.3
Viscosity Index	P:56	99	99	98
Pour Point, °C	P:10	-9	-9	-9
Flash Point, (COC), °C	P:69	250	252	254
Copper Strip Corrosion Test at 100°C for 3 hrs.	P:15	1a	1a	1a
Foaming Characteristics/Stability	P:67			
a) Sequence I		Nil	Nil	Nil
b) Sequence II		Nil	Nil	Nil
c) Sequence III		Nil	Nil	Nil

Characteristics	IS 1448	Typical Figures		
		257	320	460
Appearance	--	Clear & Bright	Clear & Bright	Clear & Bright
Density at 15° C	P:16	0.8913	0.8934	0.8952
K.V at 40° C, cSt	P:25	257.4	320.9	460.7
Viscosity Index	P:56	98	96	95
Pour Point, °C	P:10	-6	-6	-6
Flash Point, (COC), °C	P:69	256	258	262
Copper Strip Corrosion Test at 100°C for 3 hrs.	P:15	1a	1a	1a
Foaming Characteristics/Stability	P:67			
a) Sequence I		Nil	Nil	Nil
b) Sequence II		Nil	Nil	Nil
c) Sequence III		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.

Technical Services

A' Installation, Sewree (East), Mumbai – 400 015

Phone: 022-24176354, Fax: 022-24182511 / 24166512

email: z_techservices@bharatpetroleum.in

Edition: R&D / Indl / 003 / Issue 1 / Oct, 2008