

Balmerol[®] PROTOMAC SP

Superior Quality Industrial Gear Oil

Product Data Sheet

Product Description

BALMEROL PROTOMAC SP Series is premium quality all-purpose Industrial Gear oils. BALMEROL PROTOMAC SP series is blended from carefully selected paraffinic base stocks and combination of synergistic additives to achieve good load carrying properties, excellent lubricity and superior oxidation resistance. It is compatible with normal seal materials. BALMEROL PROTOMAC SP series meet AGMA Std. 250 - 04, US Steel 222 and 224, IS 8406 and IPSS 1-09-033 specifications. Selected viscosity grades also conform to Cincinnati Milacron and other OEM specifications.

Applications

BALMEROL PROTOMAC SP series is recommended for lubrication of all types of circulation, spray, and splash or dip bath lubrication mechanisms. For achieving best performance, BALMEROL PROTOMAC SP series is recommended to be used up to 110 °C. BALMEROL PROTOMAC SP series are recommended for use in all conventional types of gears, sliding mechanisms, chain drives and flexible couplings, as also for use in mechanisms operating under heavy/shock loads and vibrations. BALMEROL PROTOMAC SP series can be filtered or centrifuged without the loss of additives and are thus suitable for use in continuous recirculation systems incorporating filters. BALMEROL PROTOMAC SP series is available in eight standard ISO Viscosity grades.

Availability

BALMEROL PROTOMAC SP series are available in 200 liter and 20 liter packing.

Technical Data

No	Product's Trade name and identities (Industrial gear oil)		BALMEROL PROTOMAC SP					
			Specification					
	Characteristics	Method	100	150	220	320	460	680
1	Appearance	Visual	Clear & Bright	Clear & Bright	Clear & Bright	Clear & Bright	Clear & Bright	Clear & Bright
2	Colour	Visual	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
3	Kinematic Viscosity @ 40°C, cst	ASTM D-445	90 – 110	135 – 165	198 - 242	288 - 252	414 – 506	612 – 748
4	Viscosity Index	ASTM D-2270	90 min	90 min	90 min	90 min	85 min	85 min
5	Flash point, COC, °C	ASTM D-92	205 min	205 min	220 min	220 min	230 min	230 min
6	Copper strip corrosion, @ 100°C	ASTM D-130	1b max	1b max	1b max	1b max	1b max	1b max
7	Foaming tendencies / stabilities							
	a)	Sequence I, ml	75 / 0 max	75 / 0 max	75 / 0 max	75 / 0 max	75 / 0 max	75 / 0 max
	b)	Sequence II, ml	75 / 0 max	75 / 0 max	75 / 0 max	75 / 0 max	75 / 0 max	75 / 0 max
	c)	Sequence III, ml	75 / 0 max	75 / 0 max	75 / 0 max	75 / 0 max	75 / 0 max	75 / 0 max
8	Pour point, °C	ASTM D-97	(-) 3 max	(-) 3 max	(-) 3 max	(-) 3 max	(-) 3 max	(-) 3 max

Health and Safety

Balmerol Protomac SP series is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed.

For further information, contact:

PT. Balmer Lawrie Indonesia

Graha STR 2nd floor suite 203, Jl. Raya Ampera No. 11 Ragunan, Jakarta Selatan, Indonesia

Tlp : 021-781 8162 ; Email : cs@bli.co.id ; Website : www.bli.co.id