



*Always Smooth, Always Ahead*

### **PRODUCT DATA SHEET**

#### **BALMEROL PROTOMAC SP GEAR OILS**

( Industrial Gear Oils )

#### **PRODUCT DESCRIPTION**

**BALMEROL® Protomac SP Gear Oils** are premium quality all purpose industrial gear oils.

**BALMEROL® Protomac SP Gear Oils** are blended from carefully selected paraffinic base stocks and combination of synergistic additives to achieve good load carrying properties, excellent lubricity and superior oxidation resistance. **BALMEROL® Protomac SP Gear Oils** are compatible with normal seal materials. **BALMEROL® Protomac SP Gear Oils** 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 Gear Oils** are recommended for lubrication of all types of circulation, spray, splash or dip bath lubrication mechanisms. For achieving best performance, **BALMEROL® Protomac SP Gear Oils** are recommended to be used upto 110°C. **BALMEROL® Protomac SP Gear Oils** 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 Gear Oils** can be filtered or centrifuged without the loss of additives and are thus suitable for use in continuous re-circulation systems incorporating filters. **BALMEROL® Protomac SP Gear Oils** are available in eight standard ISO viscosity grades.

**CAUTION:** **BALMEROL® Protomac SP Gear Oils** should not be used through common sump for gear and hydraulic oils. **BALMEROL® Protomac SP Gear Oils** are not recommended for limited slip differential applications viz. automotive differential gear boxes.

#### **AVAILABILITY**

**BALMEROL® Protomac SP Gear Oils** are available in 200 liter and 20 liter packing.

**PT. ATLAS ENERGIES INDONESIA**

## BALMEROL PROTOMAC SP GEAR OILS

### TECHNICAL SPECIFICATIONS

PROPERTIES	68 SP	100 SP	150 SP	220 SP	320 SP	460 SP	680 SP
ISO Viscosity	68 2 EP	100 ---	150 4 EP	220 5 EP	320 6 EP	460 7 EP	680 8 EP
Kinematic Viscosity at 40°C, cSt	66 - 72	90 - 110	140 - 160	200 - 240	300 - 340	440 - 500	640 - 700
Viscosity Index, min.	95	95	95	90	90	90	90
Flash Point (COC), °C, min.	200	210	210	230	230	240	240
Rust Test	No Rust	No Rust	No Rust	No Rust	No Rust	No Rust	No Rust
Timken OK Load, lbs	50	50	60	60	60	60	60
FZG Test Min Stages	11	11	11	11	11	11	11