



## Balmerol® Protomac SP (GL) Series

Industrial Gear Oil Technical Data Sheet

#### **Product Description:**

Balmerol Protomac SP (GL) Series are premium quality all purpose industrial gear oils. Balmerol Protomac SP (GL) Series oils are blended from carefully selected paraffinic basestocks and combination of synergistic additives to achieve the required performance level of different standards as well as compatibility with normal seal materials. Balmerol Protomac SP (GL) Series oils can be filtered or centrifuged without the loss of additives.

Balmerol Protomac SP (GL) Series **meets** the following specifications:

IS: 8406-1993 – Reaffirmed 2001

AGMA 9005-E02 EP

DIN 51517 Part 3, CLP

ISO 12925-1 Type CKD & CKC

US Steel : 224IPSS: 1-09-003

#### Features & Benefits:

Very good EP/ Anti-wear properties Enhanced protection of gears and bearings leading to

more reliable operation

Superior filterability characteristics No loss of additives during filtration

Compatible with normal seal materials Less leakage, lower chance of ingress of contaminants in

equipment, better equipment protection and

housekeeping

#### Applications / Recommendations:

Balmerol Protomac SP (GL) Series is recommended for lubrication of all types of circulation, spray and splash or dip bath lubrication mechanisms.

- Most suitable for use in all conventional types of gears, sliding mechanisms, chain drives and flexible couplings.
- Recommended for use in mechanisms operating under heavy / shock loads and vibrations.
- Suitable for use in continuous recirculation systems incorporating filters





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### **Typical Properties:**

Balmerol Protomac SP (GL) Series		
Properties	Protomac SP (GL) 320	Protomac SP (GL) 460
ISO VG Grade	320	460
Kinematic Viscosity, cSt @ 40°C, ASTM D 445	300 - 350	420 -480
Viscosity Index, min, ASTM D 2270	90	90
Pour Point, °C, max ASTM D 97	-3	0
Flash Point, °C, min, ASTM D 92	230	230
Rust Characteristics Test , ASTM D665	No Rust	No Rust
FZG Test (A/8.3/90), Fail Stage, DIN 51354	12	12
Timken EP Test (OK Load) lb, ASTM D 2782	60	60

#### **Health and Safety:**

Balmerol Protomac SP (GL) Series oils are 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 MSDS please contact your local Balmer Lawrie Marketing / Technical Service team.

For Further Information, contact:

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