

# Balmerol<sup>®</sup> Synthgear GB Series

## Synthetic Gear Oil For Extreme Temperatures

Technical Data Sheet

### Product Description:

Balmerol Synthgear GB Series has been developed using Polyglycol (PG / PAG) baseoils of proven versatility for applications in extremes of temperatures. Balmerol Synthgear GB oils are manufactured with synergistic blends of extreme pressure / anti-wear additives, antioxidants, rust & corrosion inhibitors to provide superior performance and provide better equipment protection.

### Features & Benefits:

#### Balmerol Synthgear GB Series

- Has high viscosity index and is suitable both for low and high temperature applications
- Exhibits excellent high temperature oxidation and thermal stability
- Ensures high load carrying capability along with good anti-wear properties
- Provides very good rust and corrosion protection
- Exhibits high scuffing load capacity and micro-pitting resistance

#### Balmerol Synthgear GB Series

- Provides long service life
- Reduces gear tooth wear
- Reduces power consumption (in selective applications due to its superior lubricity)
- Reduces downtime and lowers maintenance cost

### Applications / Recommendations:

Balmerol Synthgear GB Series oils are recommended for use in industrial gears and bearings where operating or bulk oil temperatures are such that conventional lubricants do not give satisfactory performance. It is especially suitable for moderate speed gears operating at high temperature and loads. Balmerol Synthgear GB Series oils are especially developed for the lubrication of worm gears with steel / bronze pairings. It can also be used for the lubrication of lifting, drive and transport chains.

It is compatible with metallic materials as well as many elastomeric seal materials (if in doubt, kindly check with Balmer Lawrie Technical team).

Balmerol Synthgear GB Series having Polyglycol baseoil is incompatible with mineral or PAO based synthetic oil and thus mix-up should be avoided.

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### Typical Properties:

Balmerol Synthgear GB Series			
Properties	Synthgear GB 220	Synthgear GB 320	Synthgear GB 460
ISO VG Grade	220	320	460
Appearance	Clear transparent liquid	Clear transparent liquid	Clear transparent liquid
Base Oil	Polyglycol	Polyglycol	Polyglycol
Viscosity, ASTM D 445			
cst @ 40°C	221	320	460
cst @ 100°C	38	52	75
Viscosity Index, ASTM D 2270	210	220	230
Density, kg / m <sup>3</sup> at 15 °C, ASTM D 1298	1006	1007	1008
Pour Point, °C ASTM D 97, Maximum	- 36	- 30	- 27
Flash Point, °C ASTM D 92, Minimum	220	225	225
Copper Strip Corrosion, ASTM D 130, 3 hrs @ 100°C	1	1	1
FZG Test (A/8.3/90), Fail Stage, DIN 51354	> 12	> 12	> 12

### Health and Safety:

Balmerol Synthgear GB 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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