

# Balmerol® Synthplex 2

## High Performance Synthetic Grease

Technical Data Sheet

### Product Description:

Balmerol Synthplex 2 is a premium quality synthetic grease for extra heavy duty applications. It is based on highly shear stable Li-Complex soap thickener and a blend of high quality synthetic hydrocarbon base stocks. The unique physical properties of the synthetic base fluid attribute an excellent low and high temperature performance to the grease. The Li-complex soap thickener offers outstanding high temperature capabilities and high degree of mechanical stability for prolonged usage. The selected additive combination protects the bearing components from rust, wear, corrosion and improves the oxidation stability of the lubricant for long life performance.

### Features & Benefits:

Balmerol Synthplex 2 provides the following benefits:

- Fully synthetic hydrocarbon base oil provides excellent low and high temperature properties, enhanced oxidation protection, increases the life of the grease and extends the re-lubrication intervals
- Lithium complex soap thickener attributes higher operating temperature (upto 180°C)
- Highly shear stable Li - complex soap thickener offers superior mechanical stability
- Selected additive combination provides protection against wear , rust and oxidation
- It possesses good water resistance property
- Operating temperature range – 50°C to + 180°C.

### Applications / Recommendations:

- It is recommended for automotive wheel hub bearing and chassis applications for long life performance.
- It is recommended for heavy duty industrial applications requiring long life performance for extended lubrication.
- It is a versatile product for both low and high temperature applications which cannot be met by mineral oil based greases.

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### Typical Properties:

Balmerol Synthplex 2	
Properties	Synthplex 2
Appearance	Smooth & Reddish
Thickener type	Lithium Complex
NLGI	2
Base Oil Type	Synthetic
Viscosity, ASTM D 445, cst @ 40°C	216
Viscosity Index, min, ASTM D 2270	134
Worked Penetration 60/60 strokes at 25°C, ASTM D 217	274
Penetration Change after 100000 strokes, max., ASTM D 217 (Units)	296
Dropping Point °C, min, ASTM D 566	252
Timken OK Load in kgs, ASTM D 2509	20
Wheel Bearing test: ASTM D 1263	
a) Leakage in gms	1.6
b) Other observations	No deposit or abnormal change in consistency
Water wash out @ 80°C, % loss, ASTM D 1264	1.2
Roll Stability, & change in penetration, ASTM D 1831	
a) For 2 hrs @ room temp	Nil
b) For 16 hrs @ 50°C	10.1
% of oil separation during storage, ASTM D 1742	1.3
Oxidation stability, 100h, % drop in pressure, kgs/Cm <sup>2</sup> , ASTM D 942	0.2
Rust preventive props, rating, max, ASTM D 1743	1.0
Copper Strip corrosion@ 100° C, 24 hrs, max. ASTM D 4048	No evidence of discolouration, etching or corrosion



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### Health and Safety:

Balmerol Synthplex 2 grease 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 MSDS please contact your local Balmer Lawrie Marketing / Technical Service team.

For Further Information, contact:

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