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## PRODUCT DATA SHEET

### SYNPLUS LL-01 5W/30

#### PRODUCT DESCRIPTION

**Synplus LL-01 5W/30** is a full synthetic, full SAPS, super high performance engine oil which combines the latest development in oil formulation and additive technology to provide lubricating oil with the highest level of protection.

Today's environmentally conscious market demands reduced emissions and increased fuel efficiency. This has led to the development of new engine designs resulting in demands for higher quality lubricants. In recent years car manufacturers have developed smaller, higher output engines to meet stricter fuel economy limits. Small engines help decrease vehicle weight and improve economy but these engines impact lubricants through:

- **Increased heat** - accelerates the rate of oil oxidation, nitration and deposit formation. This degrades the oil and encourages the creation of more acid and increases viscosity.
- **Increased pressure and speed** - makes it harder for the oil to maintain a lubricant film to prevent metal on metal contact. This accelerates valve train wear.
- **Emission Control** - most of today's petrol engines are fitted with catalytic converters which reduce emissions of CO, NOx and unburned carbon. Catalytic converters are susceptible to SAPS (Sulfated Ash, Phosphorous and Sulfur) that are present in engine oil detergents, antiwear additives and in base oils.

**Synplus LL-01 5W/30** is designed to meet these challenges to the vehicle's lubricant system.

#### SPECIFICATIONS:

**Synplus LL-01 5W/30** meets or exceeds the following demanding performance requirements:

API:	SL, CF
ACEA:	A3/B4
BMW Longlife:	LL-01
Mercedes Benz:	229.3, 229.5, 226.5
VW:	502.00, 505.00
Renault:	RN0700, RN0710
Opel/GM:	LL-B-025

**API SL:** **Synplus LL-01 5W/30** is classified as API SL. It has the performance of an API SN Lubricant, but due to the phosphorus level restrictions of 0.06% minimum to 0.08% maximum on the ILSAC viscosity grade oils, API SM and API SN claims cannot be made with this 5W-30 lubricant. The API SN grade is the newest passenger car gasoline engine oil service category which requires improved oxidation resistance and deposit protection (which today's smaller higher output engines demand), better wear protection for valve trains and reduced evaporative loss with less requirement for top up oil. API SN oils provide better low-temperature performance over the life of the oil, extended oil drain intervals in line with the engine manufacturers' recommendations, and extended life for catalytic converters.



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**ACEA A3/B4: Synplus LL-01 5W/30** meets the 2016 edition of the ACEA A3/B4 specifications which call for a stable, stay in grade oil for use in high performance gasoline and direct injection diesel engines and car or light van diesel engines. These A3/B4 oils may also be used in applications requiring A3/B3 oils and for extended drain intervals where specified by the engine manufacturer and/or as year round low viscosity oils and/or for severe conditions as defined by the engine manufacturer.

**Daimler Chrysler MB229.5 and MB229.3: Synplus LL-01 5W/30** can be used where MB229.5 and MB229.3 are called for. The synthetic formulation meets the extended drain requirements of Mercedes Benz. Its lower volatility will reduce the evaporation of lighter oil fractions which would lead to oil thickening, contaminant concentration and increased oil consumption.

**BMW Longlife LL-01: Synplus LL-01 5W/30** meets the environmentally driven BMW Longlife-01 oil standard. The full-SAPS formula keeps the engine and exhaust system clean which reduces harmful emissions. Full-SAPS technology is not suitable for diesel models requiring ACEA C3 performance.

Always consult your vehicle owner's manual for the manufacturer's lubricant recommendations.

### TYPICAL PROPERTIES

Property	Results
Appearance	Amber
Density (kg/Lt) @15°C	0.859
Viscosity (cSt) @100°C	11.9
@40°C	68.3
CCS @ -30°C (cP)	6100
Viscosity Index	172
HTHS (cP)	3.5
TBN (mg KOH/g)	10.1
Sulphated Ash (% wt)	1.17
Phosphorus (% wt)	0.09
Flash Point (°C)	200

**Available in:** Bulk, 200 Litres, 20 Litres and 5 Litres

"Hi-Tec Oil Traders Pty Ltd (Hi-Tec Oils) has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at [www.hi-tecoils.com.au](http://www.hi-tecoils.com.au). Hi-Tec Oils takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner.

Our product warranty and product quality statement can be viewed at [www.hi-tecoils.com.au](http://www.hi-tecoils.com.au)"

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