



PRODUCT DATA SHEET

SYNPLUS SP/CF 5W/40

PRODUCT DESCRIPTION

Synplus SP/CF 5W/40 is a full synthetic, low SAPS, super high performance engine oil which combines the latest development in oil formulation and additive technology to provide a 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** which 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** which 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 three way catalytic converters which reduce emissions of CO, NOx and unburned carbon. These catalytic converters comprise a reduction catalyst, which converts NOx to harmless nitrogen, and an oxidation catalyst which burns the CO and hydrocarbons. Catalytic converters are susceptible to SAPS (Sulfated Ash, Phosphorous and Sulfur) that are present in engine oil detergents and antiwear additives and in base oils.

Synplus SP/CF 5W/40 is designed to meet all these challenges to the lubricant systems.

SPECIFICATIONS:

Synplus SP/CF 5W/40 meets or exceeds the following demanding performance levels:

API:	SP, Sn Plus, SN, SM, CF
ACEA:	A3/B4, A3/B3, C3
GM:	DXS 2
Mercedes Benz:	229.31, 229.51, 226.5
BMW Longlife:	LL-04
Renault:	RN0700, RN0710
Porsche:	A40

API SP: a modern passenger car gasoline engine oil service category requiring 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 SM 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.

ACEA A3/B4 and A3/B3: **Synplus SP/CF 5W/40** meets the requirements of the Association of European Automobile Manufacturers (ACEA) A3/B4 and A3/B3 grades which call for stable, stay in grade oil for use in high performance gasoline and direct injection diesel engines and car or light van diesel engines. The A3/B4 and A3/B3 oils may be used 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.





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ACEA C3: Synplus SP/CF 5W/40 may also be used where oil meeting ACEA C3 is specified. ACEA C3 calls for stable stay-in-grade oils intended for use as a catalyst compatible lubricant in vehicles with Diesel Particulate Filters (DPF) and Three Way Catalysts (TWC) in high performance car, light van diesel and gasoline engines. These oils will help prolong the life of the DPF and TWC.

Daimler Chrysler MB229.51: Synplus SP/CF 5W/40 can be used where MB229.51 is 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-04: Synplus SP/CF 5W/40 meets the environmentally driven BMW Longlife-04 oil standard. The low-SAPS formula keeps the engine and exhaust system clean which reduces harmful emissions. Low-SAPS technology helps reduce blocking in BMW's particulate filters. Suitable for petrol and diesel models.

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

TYPICAL PROPERTIES

Property	Results
Appearance	Amber
Density (kg/Lt) @15°C	0.856
Viscosity (cSt) @100°C	13.8
@40°C	75.8
CCS @ -30°C (cP)	6250
Viscosity Index	174
HTHS (cP)	3.66
TBN (mg KOH/g)	7.3
Sulphated Ash (% wt)	0.77
Phosphorus Content (% wt)	0.08
Sulphur Content (% wt)	0.2
Flash Point (°C)	200

Available in: Bulk, 1000 Litres, 200 Litres, 60 Litres, 20 Litres, 10 Litres, 5 Litres and 1 Litre

"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. 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"

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