



**Passenger Cars Motor Oil API SN/GF-5**

**PRODUCT INFORMATION:**

**MORGAS™ GF-5/SN Synthetic Blend Motor Oils** use newly developed additive technology and formulations to provide among the highest levels of performance and protection ever offered in passenger car motor oils (PCMO). They meet the latest (2011) fuel economy standards while exceeding the car manufacturers' new ILSAC GF-5 standards for wear control, piston deposits, cleanliness, varnish and sludge, oxidation control, and emission system and seal compatibility. In repeated testing over the range of tests and variants, MorGas™ demonstrates among the lowest rates of wear in the industry for synthetic blend PCMOs.

**FEATURES/ BENEFITS**

- Advanced protection against thermal breakdown
- Wear protection so advanced it is measured in atoms per hour
- Most advanced protection against varnish, corrosion, sludge, and foaming to prolong the life of your engine Exceeds industry established levels of fuel economy
- Low volatility, which reduces oil consumption
- Exceeds GF-5 and/or SN specifications for oxidation control, wear control, cleanliness and sludge, and emission system and seal compatibility

**TECHNICAL PRODUCT INFORMATION**

Typical test data are average values only. Minor variations which do not affect product performance are to be expected during normal manufacturing.

	<i>Test Method ASTM D-</i>	<b>5W-20</b>	<b>5W-30</b>	<b>10W-30</b>	<b>10W-40</b>	<b>20W-50</b>
Viscosity @ 40°C, cSt	<b>445</b>	49.21	62.5	68.2	105.6	153.05
Viscosity @ 100°C, cSt	<b>445</b>	8.5	10.2	10.4	14.2	18.2
Viscosity Index	<b>2270</b>	148	152	141	150	134
API Gravity	<b>1298</b>	32.5	32.5	31.5	30.7	29.7
Flash Point: °C	<b>92</b>	215	215	220	220	238
Pour Point: °C	<b>97</b>	-36	-36	-27	-24	-24
TBN	<b>2896-7a</b>	7	7	7	7.8	7.8
Color		3	3	3	3.2	3.5
Noack Volatility (%wt)	<b>5800</b>	14.5	14.5	14.3	13.9	13.5