



Full Synthetic 5W-40 Euro Formula

STARFIRE FULL SYNTHETIC EURO SAE 5W-40 engine oil is specially formulated for the lubrication needs of modern European gasoline and diesel cars and light trucks.

APPLICATIONS

- STARFIRE Full Synthetic Euro SAE 5W-40 engine oil is specially formulated for the lubrication needs of modern European gasoline and diesel cars and light trucks.

BENEFITS

- Formulated with advanced 100% synthetic base stocks, premium anti-wear additives and a 5W-40 viscosity rating that is the preferred oil for virtually all European automobiles, especially turbo-charged models
- Provides outstanding protection in high RPM, hot-running engines
- Specially designed to prevent sludge and varnish deposits for reduced oil consumption, extended engine life and maximum overall performance, resulting in a clean engine
- Designed for newer vehicle emission control systems
- Meets industry and vehicle manufacturers' requirements for long-life protection of gasoline vehicle catalytic converters
- Delivers dependable, long-term performance for the extended drain intervals set by all major automakers: Audi, BMW, Mercedes-Benz, Opel, Porsche, Renault, Skoda, SEAT, Volkswagen
- STARFIRE Full Synthetic Euro SW-40 meets or exceeds the following performance specifications: API SN and SM, ACEA A3/B3 and A3/B4, BMW LL-01, Mercedes-Benz 229.5 and 229.3, Porsche A40, Opel GM-LL-B-025, Renault 0700 and 0710, Volkswagen 501 01, 502 00 and 505 00

TYPICAL PHYSICAL PROPERTIES:

SPECIFIC GRAVITY @ 60°F (15.6°C)	ASTM 04052	0.8551
VISCOSITY: cSt @ 40°C	ASTM 0445	77.27
eSt @ 100°C	ASTM 0445	13.18
VISCOSITY IN0EX	ASTM 02270	173
POUR POINT °C (°F)	ASTM 05950	-45°C (-49°F)
COLOR	ASTM 01500	2
COLOR-CRANKING SIMULATOR AT (°C),cP	ASTM 05293	6083 (-30)
HIGH TEMPERATURE / HIGH SHEAR VIS AT 150°C, cP	ASTM 05481	3.7
NOACK VOLATILITY, % LOSS	ASTM 06375	10
CALCIUM, WT. %	ASTM 05185	0.26
ZINC, WT. %	ASTM 05185	0.102
PHOSPHORUS, WT. %	ASTM 05185	0.092
SULFUR, WT. %	ASTM 04951	0.19
BORON, WT. %	ASTM 05185	0.007
NITROGEN, WT. %	ASTM 04629	0.089
PUMPING VISCOSITY AT (°C), cP	ASTM 04684	28,400 (-35)
GRAVITY, °API	ASTM 0287	33.98