
Gasoline Engine

TECHNICAL DATA SHEET

Product Description

ALES FULLY SYNTHETIC 0W20 is an advanced technology lubricant formulated with high-performance fully synthetic (PAO – polyalphaolefin) base stocks and a carefully balanced additive system. It is specifically designed to provide high performance and exceptional protection during extended service intervals. It is suitable for the latest downsized engines equipped with stop-start technologies and hybrid engines that require API SP specifications, where oils with a very high viscosity index are preferred to offer longer oil change intervals in modern engines. It provides maximum protection in the latest engine designs operating under severe conditions and protects against low-speed pre-ignition (LSPI) in these engines, including high-performance turbocharged gasoline engines with direct injection (TGDI), non-TGDI designs, supercharged gasoline engines, and certain diesel engines with multi-valve fuel injection systems.

Features & Benefits

- Outstanding protection & optimization of 3-way catalytic converters and due to its low Phosphorus content prevents them from poisoning, hence reduces NOx, HC and CO considerably.
- Excellent fuel economy & easy cold starts due to extreme fluidity at low temperatures.
- High resistant oil film even at high engine operating temperatures.
- Advanced additive technology, reduces sludge formation which improves engine cleanliness.
- Excellent oxidation & thermal stability, helps in extending oil drain intervals.
- Outstanding engine protection, helps maintain longer engine life and greater compatibility with engine seals.

Specifications

ALES FULLY SYNTHETIC 0W20 meets or exceeds following International and Builder specifications:

- API SP, SN Plus, SN, SM, SL, SJ
- API SP Resource Conserving, SN Plus Resource Conserving, SN Resource Conserving
- 0W20: ILSAC GF-6A
- HONDA, TOYOTA, MITSUBISHI
- General Motors dexos1 Gen2
- 0W20: Ford WSS-M2C947-A/B1, WSS-M2C962-A1

Application

ALES FULLY SYNTHETIC 0W20 is suitable for use in following:

- Passenger cars, SUVs, light trucks and vans.
- Suitable for downsized Gasoline engines equipped with Stop & Start technologies and hybrid.
- Suitable for all types of modern vehicles, including high-performance turbo-charged, supercharged gasoline multi-valve fuel injected engines
- Excluded service includes - commercial and racing applications, frequent towing or hauling, extremely dusty or dirty conditions or excessive idling.

Typical Characteristics

ALES FULLY SYNTHETIC 0W20	Test Method	Units	0W-16	0W-20	0W-30
Density @ 15 °C	ASTM D 4052	gm/cc	0.840	0.840	0.845
Viscosity @ 100 °C	ASTM D 445	cSt	7.45	8.6	10.4
Viscosity @ 40 °C	ASTM D 445	cSt	38.25	44.8	58.0
Viscosity Index	ASTM D 2270	-	165	173	171
Pour Point	ASTM D 97	°C	-42	-42	-42
Flash Point (COC)	ASTM D 92	°C	220	220	225
Total Base Number	ASTM D 2896	mg KOH/g	7.2	7.2	7.2
Phosphorous	ASTM D 4951	% wt	0.077	0.077	0.077
CCS Viscosity	ASTM D 5293	cP	5060 @ -35 °C	5560 @ -35 °C	5600 @ -35 °C

The above figures are typical of blends with normal production tolerance and do not constitute a specification.

For further information, please contact: www.alesoil.com