



# SAMS1 LUBRICANTS

MADE IN  
THE U.S.A.

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## 5W-20 Full Synthetic Motor Oil

**SAMS1 SAE 5W-20 Full Synthetic Motor Oil** is a superior quality multi-grade motor oil designed for maximum engine protection even under the toughest driving conditions. It outperforms conventional motor oil, reduces friction and wear at start-up and protects your engine against performance robbing sludge and varnish deposits. It is recommended for high-powered passenger car, light truck, sport utility vehicle and other mobile and stationary engines.

**SAMS1 SAE 5W-20 Full Synthetic Motor Oil** is fully licensed to meet or exceed car manufacturers' ILSAC GF-5 and American Petroleum Institute (API) Resource Conserving SN service classification and is backwards compatible with all earlier API categories. SAMS1 Full Synthetic 5W-20 Motor Oil has been field tested to be comparable to most American, Asian and European manufacturers' standards including ACEA A1/B1 & A5/B5, Chrysler MS 6395S and Ford WSS-M2C930A, WSS-M2C945A and other specifications where a full synthetic API SN/GF-5 motor oil is recommended.

### Benefits and Applications

- API Resource Conserving SN and prior SM, SL, SJ Service Classifications
- ILSAC GF-5 Service Certification
- Lower pour point reduces start-up wear during cold weather
- Full synthetic oil helps to improve fuel economy
- Compatible with conventional oils
- Excellent wear, corrosion, and rust protection
- Superior resistance to sludge and varnish deposit formation
- Designed with premium base stocks for added thermal breakdown resistance



### Typical Characteristics - SAE 5W-20 Full Synthetic Motor Oil

SAE GRADE		5W-20
API SERVICE		SN / GF-5
API Gravity	ASTM D287	35
Flash Point, COC °C/°F	ASTM D92	208/406
Pour Point, °C/°F	ASTM D97	-48/-54.4
Viscosity @ 40°C, cSt	ASTM D445	48.7
Viscosity @ 100°C, cSt	ASTM D445	8.6
Viscosity Index	ASTM D2270	157
CCS, mPa-sec, @ °C max	ASTM D5293	6200 @ -30
Phosphorus, wt% max	ASTM D4951	0.08
Total Base No. TBN	ASTM D2896	7.9

Test Method ASTM - Typical test data are average values only. Minor variations, which do not affect performance, may occur.

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HANDLING AND SAFETY INFORMATION - Refer to SAMS1 (SDS) Safety Data Sheets for proper handling and safety information. Use the same care and handling as for any petroleum product. Nothing herein shall be deemed to constitute a warranty, express or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data or products can be used without infringing patents of third parties.