



# SAE 5W-20

## FULL SYNTHETIC MOTOR OIL

MFA OIL EXCEDE Full Synthetic Motor Oil is a state-of-the-art, advanced technology motor oil which provides a high level of engine protection, even under the most severe operating conditions. It provides outstanding resistance to high temperature oxidation thickening and is formulated to reduce the likelihood of Low Speed Pre-Ignition. Our sophisticated additives prevent sludge formation commonly caused by moisture and combustion by-products. An exceptionally high viscosity index minimizes cold weather oil thickening, which greatly reduces battery drain and engine wear, even at subzero start ups.

*Meets requirements for all automotive gasoline engines where a SAE 5W-20 and ILSAC GF-6A or previous standards are specified.*

[ExcedeMotorOils.com](http://ExcedeMotorOils.com)



Distributed by: MFA Oil Company • Columbia, MO 65201 • (800) 827-0116 • [www.mfaoil.com](http://www.mfaoil.com)



### PERFORMANCE LEVELS

API SP, SN PLUS, SL, SM, SN, SJ, SH, SG, SF, SE, SD, SC

Chrysler MS-10797, MS-6395

Ford WSS M2C945-B1 M2C945-A, M2C930-A, M2C153, WSS M2C960-A1

GM 4718M, 6094M

ILSAC GF-6A, GF-5, GF-4, GF-3, GF-2, GF-1



Available in Quart,  
55 Gal Drum and Bulk



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## TYPICAL CHARACTERISTICS

*Excede® blends the latest advances in technology with the expertise of a company trusted for more than 90 years. The result is a superior lubricant built to withstand the rigors of life, ensuring you get where you need to go. Excede's exceptional quality is guaranteed through a protection plan, backed by lab testing and proven to exceed the demands of high efficiency and super charged gasoline engines alike. No matter how you drive, what you drive or the conditions you drive in, trust Excede to **Give It Everything.***

INSPECTION INFORMATION	TEST METHOD	TYPICAL VALUE
Gravity, °API	ASTM D287	34.64
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8517
Flash Point, °C	ASTM D92	224
Flash Point, °F	ASTM D92	435
Viscosity @ 40°C, cSt	ASTM D445	48.92
Viscosity @ 100°C, cSt	ASTM D445	8.739
Viscosity Index	ASTM D2270	159
Pour Point, °C (°F)	ASTM D5950	-45°C (-49°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	4450 (-30)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	2.67
Noack Volatility, % loss	ASTM D5800	11.7
Color	ASTM D1500	3
Zinc, wt. %	ASTM D5185	0.085
Phosphorus, wt. %	ASTM D5185	0.077
Calcium, wt. %	ASTM D5185	0.099
Sulfur, wt. %	ASTM D4951	0.3
Magnesium, wt. %	ASTM D5185	0.059
Boron, wt. %	ASTM D5185	0.02
Molybdenum, wt. %	ASTM D5185	0.0079
Sulfated Ash, wt. %	ASTM D874	0.92
Nitrogen, wt. %	ASTM D4629	0.087
Pumping Viscosity at (°C), cP	ASTM D4684	12,600 (-35)
Shear Stability, Final Viscosity in cSt	ASTM D6278	7.8
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	10/0
TBN, mgKOH/g	ASTM D2896	7