



# SAE 10W-40

## MOTOR OIL

MFA OIL EXCEDE SAE 10W-40 Motor Oil is specially formulated to meet or exceed tough U.S. standards for outstanding protection and performance for today's sophisticated, hard working car and light truck engines. It contains only high quality lubricating oils and a technologically advanced additive system, which includes detergents, dispersants, viscosity improver, anti-wear and anti-friction agents, and oxidation and corrosion inhibitors. Benefits include:

- » Reduced friction for excellent protection against engine wear
- » High resistance to viscosity and thermal breakdown
- » Formulated to reduce likelihood of Low Speed Pre-Ignition

MFA OIL EXCEDE SAE 10W-40 Motor Oil provides high film strength and offers increased protection in high-temperature and high-load conditions.

*Meets requirements for all automotive gasoline engines where a SAE 10W-40 API SQ 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 CF

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



Available in Quart



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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	31.59
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8676
Flash Point, °C	ASTM D92	237
Flash Point, °F	ASTM D92	459
Viscosity @ 40°C, cSt	ASTM D445	100.6
Viscosity @ 100°C, cSt	ASTM D445	14.64
Viscosity Index	ASTM D2270	151
Pour Point, °C (°F)	ASTM D5950	-39°C (-38°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	6300 (-25)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	3.96
Noack Volatility, % loss	ASTM D5800	11
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	29,600 (-30)
Shear Stability, Final Viscosity in cSt	ASTM D6278	11.5
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)	0/0
TBN, mgKOH/g	ASTM D2896	7