



FULL SYNTHETIC dexos1™ MOTOR OIL

Sinclair Full Synthetic GM dexos1™ approved motor oil is a state of the art, advanced technology motor oil providing the highest level of engine protection available, even under the most severe operating conditions. Utilizing high performance 100% synthetic basestocks fortified with a sophisticated additive system, Sinclair dexos1™ provides exceptional resistance to high temperature oxidation thickening and prevents sludge formation commonly caused by moisture and combustion by-products. The exceptionally high viscosity index minimizes cold weather oil thickening, reducing battery drain and engine wear even at subzero startup temperatures.

This product meets or exceeds tough GM dexos1™ worldwide standards and warranty requirements for all GM automotive gasoline engines currently in use. Sinclair GM provides exceptional resistance to high temperature oxidation thickening and can also be used in any engine requiring the use of SAE 5W-20 and SAE 5W-30. Sinclair GM dexos1™ chemistry keeps pistons cleaner than GF-5 minimizing oil consumption and maintains power and compression performance while reducing sludge to near zero.

Sinclair Full Synthetic GM dexos1™ approved SAE 5W-20 and SAE 5W-30 carries the GM dexos1™ Certification, ILSAC GF-5 Certification, API SN, and is suitable for use where GM 4718M and GM 6094N were previously recommended.



APPLICATIONS

- Where API Performance Category SN, SM, SL, SJ, SH, SG, SF, or SE oils are recommended.
- In passenger car, SUV and light truck engines that require oils showing the ILSAC GF-5 Certification Mark.
- In all turbocharged gasoline engines.
- In larger gasoline engines used in severe service, such as towing trailers, campers, racing, etc.
- In older gasoline powered passenger car engines.

Sinclair Arctic Fire Full Synthetic Motor Oils are licensed by the API for the SN Classification under the new CMA Code of Practice. This classification assures only the highest quality.

PERFORMANCE

- Provides fast starting and quick oil pump ability
- Maintains viscosity over a wide range of temperatures and maintains grade through the recommended drain interval
- Provides wear protection, deposit control, reduced starting friction
- Meets or exceeds General Motors specification 6094M
- Outstanding protection against viscosity and thermal breakdown
- Improved fuel economy

Sinclair Arctic Fire Full Synthetic Motor Oils Meet

API SN, SM and SL, ILSAC GF-5



FULL SYNTHETIC dexos1™ MOTOR OIL

TYPICAL PHYSICAL PROPERTIES

Viscosity Grade	METHOD	TYPICAL RESULTS	
		GM dexos1™ 5W-20 Motor Oil	GM dexos1™ 5W-30 Motor Oil
Gravity, °API	ASTM D287	34.54	34.15
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8522	0.085
Viscosity @ 40°C cSt	ASTM D445	50.93	63.95
Viscosity @ 100°C cSt	ASTM D445	8.835	10.93
Viscosity Index	ASTM D2270	153	163
High Temperature / High Shear Vis at 100°C, cP	ASTM D6616	6.3	7.15
High Temperature / High Shear Vis at 150°C, cP	ASTM D4683	2.75	3.2
Noack Volatility, % loss	ASTM D5800	10.9	10.5
Color	ASTM D1500	2.5	2.5
Zinc, wt. %	ASTM D5185	0.085	0.085
Phosphorus, wt. %	ASTM D5185	0.079	0.079
Calcium, wt. %	ASTM D5185	0.214	0.214
Sulfur, wt. %	ASTM D4951	0.306	0.252
Boron, wt. %	ASTM D5185	0.023	0.023
Molybdenum, wt. %	ASTM D5185	0.0079	0.0079
Sulfated Ash, wt. %	ASTM D874	0.92	0.92
Nitrogen, wt. %	ASTM D4629	0.102	0.102
Pumping Viscosity at (°C), cP	ASTM D4684	14,282 (-35)	18,400 (-35)
Shear Stability	ASTM D6278	8.07	9.43
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	10/0	0/0
Copper Strip Corrosion (3 hrs@100°C)	ASTM D130	1a	1a
TBN, mgKOH/g	ASTM D2896	7.9	7.9

Description	Pack Size	Part #	Each UPC	Case UPC	Case Dimensions	Case Cube / Pallet Cube	Case Weight / Pallet Weight	Pallet Stack
5W-20 dexos1™	6/1 Quart	501-006	0 14168-01792 3	0 14168-01793 0	L 9.500 x W 7.625 x H 9.625	0.403 / 77.777	12.306 / 1698.260	168 Cases (7 layers of 24)
5W-20 dexos1™	55 Gallon	501-003	0 14168-01791 6	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	423.306 / 1693.226	4 Drums
5W-30 dexos1™	6/1 Quart	502-006	0 14168-01743 5	0 14168-01768 8	L 9.500 x W 7.625 x H 9.625	0.403 / 80.333	12.136 / 2039.009	168 Cases (7 layers of 24)
5W-30 dexos1™	55 Gallon	502-003	0 14168-01742 8	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	426.344 / 1705.375	4 Drums

Sinclair Oil is a GM licensed supplier of dexos1™. Sinclair's license number is RR1B0216039 for 5W-30 and RR1D1025039 for 5W-20. You can visit <http://www.gmdexos.com/licensedbrands/dexos1licensedbrands.html> for more information.

