



# FULL SYNTHETIC MOTOR OIL

*Sinclair Full Synthetic Motor Oils are the ultimate in advanced oil technology. Blended from 100% synthetically hydroprocessed North American base stocks, these oils exceed tough U.S standards for high levels of advanced protection and performance in today's harder working, hotter running gasoline engines. They contain specially designed, technologically advanced, rigorously tested, and field proven additive systems providing unsurpassed performance. These very high quality synthetic formulas provide enhanced engine protection longer than conventional motor oils. Sinclair Full Synthetic SAE 5W-20 and & 10W-30 Motor Oils carry the ILSAC GF-5 Certification Mark that meet API Resource Conserving requirements.*



## 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 (SAE 5W-20 and SAE 10W-30).
- 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 (5W-20 and 10W-30). 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 Ford specification WSS-M2C929A and WSS-M2C930A
- Meets or exceeds General Motors specification 6094M
- Meets or exceeds Chrysler specification MS-6395H
- 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



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## TYPICAL PHYSICAL PROPERTIES

Viscosity Grade	METHOD	TYPICAL RESULTS		
		Full Synthetic 0W-20	Full Synthetic 5W-30	Full Synthetic 10W-30
Gravity, °API	ASTM D287	34.74	34.58	33.86
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8512	0.8522	0.8557
Viscosity @ 40°C cSt	ASTM D445	42.31	49.86	61.71
Viscosity @ 100°C cSt	ASTM D445	8.06	8.918	10.14
Viscosity Index	ASTM D2270	167	160	151
High Temperature / High Shear Vis at 100°C, cP	ASTM D6616	5.87	6.14	7.17
High Temperature / High Shear Vis at 150°C, cP	ASTM D4683	2.65	2.67	3.04
Noack Volatility, % loss	ASTM D5800	13.9	11.7	8.2
Color	ASTM D1500	2.5	3	3
Zinc, wt. %	ASTM D5185	0.085	0.085	0.085
Phosphorus, wt. %	ASTM D5185	0.077	0.077	0.077
Calcium, wt. %	ASTM D5185	0.214	0.19	0.19
Sulfur, wt. %	ASTM D4951	0.333	0.3	0.3
Boron, wt. %	ASTM D5185	0.023	0.018	0.018
Molybdenum, wt. %	ASTM D5185	0.0079	0.004	0.004
Sulfated Ash, wt. %	ASTM D874	0.92	0.92	0.92
Nitrogen, wt. %	ASTM D4629	0.102	0.084	0.084
Pumping Viscosity at (°C), cP	ASTM D4684	13,687 (-40)	12,500 (-35)	13,900 (-30)
Shear Stability	ASTM D6278	7.78	7.8	8.99
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	40/0	10/0	20/0
Copper Strip Corrosion (3 hrs@100°C)	ASTM D130	0	0	1a
TBN, mgKOH/g	ASTM D2896	7.9	7	7

Description	Pack Size	Part #	Each UPC	Case UPC	Case Dimensions	Case Cube / Pallet Cube	Case Weight / Pallet Weight	Pallet Stack
Full Synthetic Motor Oil 0W-20	6/1 Quart	848-006	0 14168-01752 7	0 14168-01767 1	L 9.500 x W 7.625 x H 9.625	0.403 / 68.194	12.170 / 1899.100	156 Cases (6 layers of 26)
Full Synthetic Motor Oil 0W-20	55 Gallon	848-003	0 14168-01755 8	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	455.741 / 1822.965	4 Drums
Full Synthetic Motor Oil 0W-20	330 Gallon	848-002	N/A	N/A	L 48.000 x W 48.000 x H 49.000	65.333 / 65.333	2,349.270 / 2349.270	1 Tote
Full Synthetic Motor Oil 5W-20	55 Gallon	504-003	0 14168-01761 9	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	440.515 / 1762.059	4 Drums
Full Synthetic Motor Oil 10W-30	6/1 Quart	519-006	0 14168-01605 6	0 14168-01766 4	L 9.500 x W 7.625 x H 9.625	0.403 / 68.194	12.250 / 1911.200	156 Cases (6 layers of 26)

