



35585 Curtis Boulevard • Eastlake, Ohio 44095 • (440) 951-8633 • (440) 951-4341 FAX

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# SPC 100

## Engine Oil Supplement

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### Description

SPC 100 is a unique engine oil supplement developed to optimize and enhance passenger car and light-duty truck engine performance. SPC 100 has undergone extensive testing in the lab, in industry engine tests and in the field and has provided improved performance as a supplement to SJ (current specification) oils. It creates a protective chemical layer on metal surfaces that promotes laminar flow characteristic in shear regions within the engine.

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An eight ounce treatment of SPC 100 to an engine crankcase will typically demonstrate:

- Improved rust protection (measured by CRC L-38)
  - Reduced wear (measured by: Sequence IIIIE, Sequence VE, ASTM four-ball test)
  - Reduced friction (measured by “Low Velocity Friction Apparatus”, LVFA)
  - Improved fuel economy (measured by Sequence VIA)
  - Extended oil life (Measured by: Sequence IIIIE)
  - Better cold temperature performance (Measured by: cold crank simulator CCS, MRV-TP1 mini-rotary viscometer )
  - Better cold starts (Measured by: cold crank simulator CCS, MRV-TP1 mini-rotary viscometer )
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### Typical Properties

Flash Point, °F	ASTM D-92	>350
Specific Gravity, 60°F	ASTM D-4052	0.83
Viscosity @ 40°C, cSt	ASTM D-445	11.5



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### Terresolve 5W 30 Engine Test Summary Sheet

<u>Procedure</u>	<u>Test</u>	<u>TTL SAE 5W 30</u>	<u>TTL SAE 5W 30 w / SPC100</u>
D 445	Viscosity @ 100° C, cst	10.0	10.0
D 445	Viscosity @ 40° C, cst	58.3	58.4
D 5293	CCS @ -25° C, cP	2,320	2,050
D 5293	CCS @ -30° C, cP	2,750	2,500
D 4684	MRV - TPI, cP @ -35° C	9,100	8,900
D 5133	Scanning Brookfield	Pass	Pass
D 4683	HTHS Viscosity, cP	3.1	3.1
D 92	Flash Point, ° C	242	240
GM 9099 P	GM EOFT (Standard Procedure), % Flow Red.	Pass	Pass
D 892	Foam	Pass	Pass
FTM 791 B	Homogeneity and Miscibility	Pass	Pass
TEOST	Total Weight, mg.	Pass	Pass
Elements, % mass	Zinc	0.13	0.13
	Phosphorus	0.09	0.09
	Calcium	0.20	0.20
	Magnesium	0.03	0.03
	Sulfur	0.33	0.33
D 4629	Nitrogen	0.07	0.07
D 2896	Total Base Number (TBN)	9.0	9.0
D 874	Sulfated Ash, % mass	1.1	1.1
CRC L-38	10-Hour Stripped Viscosity @ 100° C	9.70	9.70



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**Terresolve SAE 5W 30**  
**Typical Properties and Bench Test Performance**  
**CMA Code # RM-481394-0-106-E**

<b>SAE Grades</b>	<b><u>5W 30</u></b>	<b><u>5W 30 w / SPC 100</u></b>	
<b>CMA Code Number</b>			
RM-481394	<b><u>0106-E</u></b>	<b><u>Level II Support Data</u></b>	<b><u>GF-2 Limits</u></b>
<b>Sequence IID</b>			
Average Engine Rust	8.50	8.63	8.5 min.
Stuck Lifters	None	None	None
<b>Sequence IIIE</b>			
Average Engine Sludge	9.58	9.51	9.20 min
Average Piston Skirt Varnish	9.03	9.45	8.90 min.
Average Ring Land Deposits	5.47	4.80	3.50 min.
* Cam & Lifter Wear, mm			
Maximum	46	43	64
Average	12.9	10.1	30.0
* Hours to 375% Viscosity Increase	73.2	75.7	64 min.
Ring Sticking	0	0	None
<b>Sequence VE</b>			
Average Engine Sludge	9.36	9.29	9.0 min.
Rocker Cover Sludge	8.64	9.05	7.0 min.
Average Piston Skirt Varnish	6.80	6.66	6.5 min.
Average Engine Varnish	5.86	5.68	5.0 min.
* Cam Lob Wear, mils			
Maximum	1.0	1.0	15 max.
Average	0.8	0.6	5 max.
Hot Stuck Compression Rings	0	0	None

SPC 100

**CRC L-38**

Bearing Weight Loss	17.2	31.5	40 max.
Piston Skirt Varnish	9.8	9.7	9.0 min.

**\* Sequence VIA**

Improvement %	1.12	1.42	1.10 min. (OW-30 / 5W-30)
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**Terresolve SAE 5W 30 Test Data Base**

\* SAE 5W 30: CMA Code # RM-481394-0-106-E

Meets: ILSAC GF-2  
API SJ / CF, EC  
JASO

\* SAE 5W 30 w / SPC-100: CMA Code # RM-481394-0-106-E plus supplement (Level II support)

Meets: ILSAC GF-2  
API SJ / CF, EC  
JASO

