

# CROSS L-SERIES

## BASE OILS

Cross L Series are severely hydro treated naphthenic base oils manufactured from select crude streams. They offer low pour point, good solvency and color stability. They are ideal for production blending and exhibit excellent solubility with additive systems.

Property	METHOD ASTM	40	60	100	150	200	300	500	750	1200	2400
Viscosity, cSt @ 40C	D445	4.70	9.97	19.64	29.78	41.19	59.77	98.58	144.19	231.0	441.70
Viscosity, cSt @ 100C	D445	1.55	2.44	3.54	4.61	5.42	6.80	8.9	11.39	14.9	21.92
Viscosity, SUS @ 100F	D2161	42.3	61.61	104.6	156.0	214.8	313.3	523.1	773	1247	2421
Viscosity, SUS @ 210F	D2161	31.3	34.4	38.3	41.1	44.5	49.0	61.93	63.9	85.3	110.2
Gravity, API	D4052	30.1	26.9	24.4	24.1	23.3	22.9	22.0	21.8	21.2	21.0
Gravity, Sp., 15.6°C (60 °F)	D1250	0.8756	0.8933	0.9076	0.9094	0.9141	0.9165	0.9218	0.9248	0.9267	0.9279
Weight, Lb./Gal.	D1250	7.294	7.442	7.558	7.597	7.612	7.635	7.680	7.742	7.720	7.727
Viscosity-Gravity Constant	D2501	0.8621	0.8644	0.870	0.8660	0.8674	0.8652	0.8655	0.8619	0.8605	0.853
Flash, °C / °F	D92	126 (258)	153 (307)	163 (325)	175 (347)	184 (363)	194 (381)	211 (412)	221 (430)	231 (438)	248 (480)
Color	D1500	L 0.5	L 0.5	L 1.0	L 1.0	L 1.5	L 1.5	L 1.5	L 1.5	L 3.0	2.5
Sulfur, % Weight	D4294	0.01	0.01	0.04	0.04	0.05	0.11	0.08	0.08	0.18	0.15
Pour Point, °C / °F	D97	-68 (-90)	-57 (-70)	-46 (-51)	-43 (-45)	-34 (-30)	-32 (-25)	-21 (-6)	-18 (0)	-13 (+9)	-10 (+15)
Aniline Point, °C / °F	D611	-	-	-	77 (171)	79 (174)	82 (180)	84 (183)	86 (187)	91 (196)	90 (208)
Molecular Weight	D2502	-	240	295	335	345	390	405	405	530	525
UV Absorptivity, 260 nm	D2008	0.06	0.40	2.5	3.0	3.6	3.9	5.3	5.8	6.7	7.2
Refractive Index @ 20 C	D1747	1.483	1.496	1.494	1.498	1.508	1.508	1.510	1.514	1.510	1.511
Volatility, % Wt	D972	46.0	15.0	8.0	6.1	5.0	3.0	1.8	1.0	0.4	0.3
Refractivity Intercept	D2159	1.041	1.047	1.040	1.040	1.051	1.047	1.047	1.052	1.046	1.047
DMSO Extract, wt. %	IP-346	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0

The information on this Product Data Sheet is believed to be accurate and is typical of current production. Specifications are subject to change without notice.

Health And Safety Information See separate Safety Data Sheets available on request.

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**Cross Oil Refining & Marketing, Inc.**

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