



HyPrene Naphthenic Process Oils

Typical Property Values*

HyPrene
| Process Oils

ERGON

TEST DESCRIPTION	TEST METHOD	40	60	100	L150	L600	L750	L1200	L2000
Physical Properties									
Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	38	60	118	154	626	774	1244	2110
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	30	34	39	41	58	64	78	100
Viscosity, cSt at 40°C (104°F)	ASTM D445	4	10	22	30	117	144	230	385
Viscosity, cSt at 100°C (212°F)	ASTM D445	1	2	4	4	9	11	14	20
API Gravity, 60°F (15.6°C)	ASTM D1250	31	28	25	24	23	23	22	22
Specific Gravity, 60°F (15.6°C)	ASTM D4052	0.869	0.887	0.907	0.909	0.916	0.918	0.921	0.924
Viscosity-Gravity Constant	ASTM D2501	-	0.857	0.867	0.866	0.856	0.856	0.853	0.850
Density, lbs/gal at 60°F	ASTM D1250	7.2	7.4	7.6	7.6	7.6	7.6	7.7	7.7
Density at 15.6°C, g/cm³	ASTM D1250	0.868	0.886	0.906	0.908	0.915	0.918	0.921	0.924
Molecular Weight	ASTM D2502	-	272	305	325	394	418	456	501
Flash Point, COC, °F (°C)	ASTM D92	243 (117)	308 (153)	345 (174)	357 (181)	437 (225)	443 (228)	466 (241)	507 (264)
Flash Point, PMCC, °F (°C)	ASTM D93	225 (107)	286 (141)	318 (159)	335 (168)	402 (206)	418 (215)	432 (222)	461 (238)
Color, ASTM	ASTM D6045	L0.5	L0.5	L0.5	L0.5	L0.5	L2.0	L2.0	L2.0
Pour Point, °F (°C)	ASTM D5949	-	-	-56 (-49)	-	-22 (-30)	-21 (-29)	-17 (-27)	7 (-21)
Pour Point, °F (°C)	ASTM D5950	-118 (-83)	-83 (-64)	-	-48 (-45)	-	-	-	-
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972	-	26.5	11.4	5.1	1.0	0.2	0.2	0.1
Glass Transition Temperature (Tg), °C	ASTM D3418	-73	-87	-79	-70	-	-61	-59	-54
Chemical Properties									
Acid Number, mg KOH/g	ASTM D664	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Aniline Point, °F (°C)	ASTM D611	151 (66)	169 (76)	170 (77)	173 (78)	195 (91)	196 (91)	202 (94)	208 (98)
Sulfur, ppm	ASTM D4294	-	-	293	291	270	612	792	991
Sulfur, ppm	ASTM D7212	6	44	-	-	-	-	-	-
Refractive Index, 20°C (68°F)	ASTM D1218	1.473	1.4833	1.4946	1.4968	1.5006	1.5038	1.5061	1.5085
UV Absorptivity at 260 nm	ASTM D2008	0.24	0.64	1.18	2.09	1.34	3.15	4.32	5.11
Carbon Type Analysis, %	ASTM D2140								
Ca		7	5	9	11	9	12	12	13
Cn		52	50	49	45	42	38	36	33
Cp		41	45	42	44	49	50	52	54
Health and Safety Properties									
Polycyclic Aromatic Compounds, wt%	IP 346	<3	<3	<3	<3	<3	<3	<3	<3
Modified Ames Assay, MI	ASTM E1687	<1	<1	<1	<1	<1	<1	<1	<1
FDA Regulation	21 CFR 178.3620	-	PASS (C)	PASS (C)	-	-	-	-	-

*Typical Property Values presented for general reference only. Please visit ergonusa.com or ergoninternational.com for detailed Marketing Specifications. HyPrene naphthenic process oils are products of Ergon Refining, Inc.
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