



# SAN JOAQUIN REFINING CO., INC.

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## Naphthenic Lube/Process Oils Product Data Sheet

Typical Properties	ASTM Method	RAFFENE ®			
		200L	750L	1200L	2000L
Viscosity, SUS @ 100F	D2161	199	876	1445	2034
Viscosity, SUS @ 210F	D2161	43.1	63.4	75.3	83.8
Viscosity, cSt @ 40C	D445	38.13	162.1	263.80	366.4
Viscosity, cSt @ 100C	D445	5.18	10.81	13.84	15.99
API Gravity	D287	23.9	21.2	21.0	18.9
Specific Gravity @ 60F	D1250	0.9106	0.9267	0.9279	0.9408
Density, lb/gal @ 60F	D1250	7.582	7.717	7.727	7.835
Color	D1500	2.5	3.0	3.5	L4.5
Flash, COC, F	D92	355	390	415	420
Pour Point, F	D97	-20	5	15	30
Aniline Point, F	D611	176	180	190	177
Refractive Index @ 20C	D1218	1.4957	1.5050	1.5048	1.5113
Neut. No., mg KOH/g	D974	0.13	0.19	0.43	0.56
Sulfur, w%	D4294		0.69	0.78	0.87
Clay-Gel Analysis, w%	D2007				
Asphaltenes		0	0	0	0
Polar Compounds		4	3	3	6
Aromatics		28	37	41	45
Saturates		68	60	56	49
Carbon-Type Analysis, %	D2140				
Ca		7	10	8	12
Cn		50	46	48	49
Cp		43	44	44	39