



ConoPure™ Process Oils Properties

PROPERTY	ASTM Method	Min/Max/Typical	Product Grade			
			3P	4P	6P	12P
Product Code:	----	---	1041628	1041629	1041630	1041631
Gravity, °API @ 60°F(15.5°C)	D 287	Typ	33.5	34.0	32.0	30.4
Specific Gravity @ 60°F(15.5°C)	D 5002	Typ	0.8588	0.8562	0.8656	0.8740
Density, lb/gal @ 60°F(15.5°C)	D 4052	Typ	7.15	7.13	7.21	7.27
Viscosity:						
cSt @ 40°C	D 445	Typ	13.2	21.0	42.9	112.7
cSt @ 100°C	D 445	Min-Max	3.0-3.2	4.01-4.30	6.38-6.66	11.8-12.6
SUS @ 100°F	Calculated	Typ	75	110	221	589
SUS @ 210°F	Calculated	Typ	37	40	48	69
Pour Point, °F	D 97	Max	-11	10	10	10
°C		Max	-24	-12	-12	-12
Flash Point, °F	D 92	Min (Typ)	350 (357)	390 (397)	420 (437)	500 (513)
°C		Min (Typ)	177 (181)	199 (203)	216 (225)	260 (267)
Aniline Point, °F	D 611	Typ	209	225	238	259
°C		Typ	98	107	114	126
Total Acid No.	D 664	Typ	0.05	0.04	0.03	0.03
Color, Saybolt	D 156	Typ	30	30	30	30
Color, ASTM	D 1500	Max	0.5	0.5	0.5	0.5
Sulfur, ppm	D 1552	Typ	<1	<1	<1	<1
Volatility:	D 6417					
% @ 630°F	(formerly D 2887)	Max	5	N/A	N/A	N/A
% @ 700°F		Max	N/A	14	7	N/A
% @ 800°F		Max	N/A	N/A	N/A	5
Composition %:	D 5186					
Saturates		Min	99	99	99	99
Aromatics			0	0	0	0
Polar Compounds			0	0	0	0
Carbon Type Composition:	D 3238	Typ				
Ca, wt%			0	0	0	0
Cn, wt%			37	32	33.2	31.4
Cp, wt%			63	68	66.8	68.6
Water, Karl Fischer, ppm	D 1744	Max (Typ)	50 (16)	50 (20)	50 (24)	50 (18)
Viscosity-Gravity Constant	D 2501	Typ	0.818	0.805	0.804	0.796
Molecular Weight	D 2502	Typ	320	370	410	540
UV Absorbivity @ 260 nm	D 2008	Typ	0.06	0.09	0.09	0.28
Refractive Index @ 20°C	D 1218	Typ	1.4525	1.4523	1.4577	1.4619
FDA Mineral Oil	CFR 178.3620(c)		Pass	Pass	Pass	Pass

Additional Tests:

PROPERTY	ASTM Method	Min/Max/Typical	Product Grade			
			3P	4P	6P	12P
Dioxin Precursors, ppb	GC/MS					
Dibenzofuran		Typ	N/A	Not Detected	N/A	N/A
Dibenzodioxin		Typ	N/A	Not Detected	N/A	N/A
Volatility, wt%						
22 hrs @ 225°F	D 972		2.40	0.08	<0.01	<0.01
3 hrs @ 325°F	D 6 (modified)		3.87	0.46	0.02	0.01
Autoignition Temp., °F	E 659	Typ		670		720
°C	E 659	Typ		354		382
VOCs, wt%	D 2369	Typ	N/A	2.3	N/A	N/A
Unulfonated Residue, vol%	D 483	Typ	98	N/A	N/A	N/A
Sulfated Ash, wt%	D 482	Typ	<0.001	<0.001	<0.001	<0.001
Conradson Carbon Residue, wt%	D 189	Typ	0.05	0.06	0.04	0.05
Ramsbottom Carbon Residue, wt%	D 524	Typ	0.05	0.06	0.04	0.05