



ConoPure® Process Oils
Properties

DISTRIBUTED BY: R.E. CARROLL, INC.
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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 4052	Typ	32.7	34.4	31.4	30.2
Specific Gravity @ 60°F(15.5°C)	D 4052	Typ	0.8618	0.8529	0.8686	0.8749
Density, lb/gal @ 60°F(15.5°C)	D 4052	Typ	7.17	7.10	7.23	7.28
Viscosity:						
cSt @ 40°C	D 445	Typ	13.5	20.3	41.9	106.0
cSt @ 100°C	D 445	Min-Max	2.9-3.2	4.07-4.25	6.38-6.58	11.8-12.6
SUS @ 100°F	D 2161	Typ	76	107	216	553
SUS @ 210°F	D 2161	Typ	37	40	48	68
Pour Point, °F	D 5949	Max	-17	10	10	10
°C		Max	-27	-12	-12	-12
Flash Point, °F	D 92	Min (Typ)	350 (369)	390 (405)	420 (441)	500 (514)
°C		Min (Typ)	177 (187)	199 (207)	216 (227)	260 (268)
Aniline Point, °F	D 611	Typ	208	229	221	241
°C		Typ	98	109	105	116
Total Acid No.	D 664	Typ	0.01	0.01	0.01	0.01
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:						
% @ 630°F	D 2887	Max	5	N/A	N/A	N/A
% @ 700°F	D 2887	Max	N/A	14	7	N/A
% @ 800°F	D 2887	Max	N/A	N/A	N/A	5
Composition %:						
Saturates	UV Correl.	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%			43	35	38	35
Cp, wt%			57	65	62	65
Water, Karl Fischer, ppm	D 6304	Max (Typ)	50 (26)	50 (27)	50 (24)	50 (22)
Viscosity-Gravity Constant	D 2501	Typ	0.821	0.803	0.807	0.797
Molecular Weight	D 2502	Typ	320	370	420	550
UV Absorbivity @ 260 nm	D 2008	Typ	0.93	0.81	1.27	1.69
Refractive Index @ 20°C	D 1218	Typ	1.4684	1.4685	1.4734	1.4763
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	Not Detected	Not Detected	Not Detected	Not Detected
Dibenzodioxin		Typ	Not Detected	Not Detected	Not Detected	Not Detected
Volatility, wt%						
22 hrs @ 225°F	D 972		2.68	0.65	0.1	<0.01
3 hrs @ 325°F	D 6 (modified)		6.30	2.00	0.63	<0.1
Autoignition Temp., °F	E 659	Typ	549	631	678	849
°C	E 659	Typ	287	333	359	454
VOCs, wt%	D 2369	Typ	2.9	1.2	0.74	0.1
Un sulfonated Residue, vol%	D 483	Typ	100	100	100	100
Sulfated Ash, wt%	D 482	Typ	<0.005	<0.005	<0.005	<0.005
Conradson Carbon Residue, wt%	D 189	Typ	0.02	0.02	0.01	0.01
Ramsbottom Carbon Residue, wt%	D 524	Typ	0.07	0.07	0.06	0.06