

# **CONOSTAN**<sup>®</sup>

*Oil Analysis Standards*

## **Solution étalons milieu organique**

Choisissez votre Gamme

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Vous serez automatiquement redirigé à la section souhaitée

# BIODIESEL STANDARDS

<b>SULFUR IN BIODIESEL</b>	<b>5% BIODIESEL (B5)</b>	<b>20% BIODIESEL (B20)</b>	<b>100% BIODIESEL (B100)</b>
<b>ppm</b>	<b>CATALOGUE NUMBER</b>	<b>CATALOGUE NUMBER</b>	<b>CATALOGUE NUMBER</b>
Blank (0)	150-440-000	150-440-050	150-440-100
5	150-440-005	150-440-055	150-440-105
10	150-440-010	150-440-060	150-440-110
15	150-440-015	150-440-065	150-440-115
30	150-440-020	150-440-070	150-440-120
50	150-440-025	150-440-075	150-440-125
75	150-440-030	150-440-080	150-440-130
100	150-440-035	150-440-085	150-440-135
200	150-440-040	150-440-090	150-440-140
500	150-440-045	150-440-095	150-440-145

Size: 100g (Approx. 4 oz)

<b>METALS IN BIODIESEL</b>	<b>B100 (BIODIESEL 100%) BDM5</b>	<b>B100 (BIODIESEL 100%) BDM2A</b>	<b>B100 (BIODIESEL 100%) BDM2B</b>
<b>ELEMENTS</b>	<b>Ca, K, Mg, Na, P</b>	<b>K, Na</b>	<b>Ca, Mg</b>
<b>ppm</b>	<b>CATALOGUE NUMBER</b>	<b>CATALOGUE NUMBER</b>	<b>CATALOGUE NUMBER</b>
0	150-441-000	150-441-000	150-441-000
2	150-441-005	150-440-030	150-440-065
5	150-441-010	150-440-035	150-440-070
10	150-441-015	150-440-040	150-440-075
15	150-441-020	150-440-045	150-440-080
20	150-441-025	150-440-050	150-440-085
25	-	150-440-055	150-440-090
50	-	150-440-060	150-440-095

## CHLORINE IN OIL STANDARDS

FOR THE CALIBRATION OF VARIOUS ANALYTICAL TECHNIQUES

CHLORINE CONCENTRATIONS			
Catalogue Number	µg/g	Weight %	Size
150-200-008	0	0	100 g
150-200-001	10	0.001	100 g
150-200-002	100	0.01	100 g
150-200-003	1000	0.1	100 g
150-200-004	10,000	1.0	100 g
150-200-005	500	0.05	100 g
150-200-006	5,000	0.5	100 g
150-200-007	50,000	5.0	100 g

## SINGLE-ELEMENT METALLO-ORGANIC STANDARDS

AVAILABLE IN DIFFERENT CONCENTRATIONS & SIZES

SINGLE-ELEMENT STANDARDS, SIZE: 2 Oz (50g), BLENDED IN 20 cSt BLANK OIL					
ELEMENT	1000 ppm	5000 ppm	ELEMENT	1000 ppm	5000 ppm
Ag	150-100-475	150-500-475	Li	150-100-035	150-500-035
As	150-100-335	---	Mg	150-100-125	150-500-125
Al	150-100-135	150-500-135	Mn	150-100-255	150-500-255
B	150-100-055	150-500-055	Mo	150-100-425	150-500-425
Ba	150-100-565	150-500-565	Na	150-100-115	150-500-115
Be	150-100-045	150-500-045	Ni	150-100-285	150-500-285
Bi	150-100-835	150-500-835	P	150-100-155	150-500-155
Ca	150-100-205	150-500-205	Pb	150-100-825	150-500-825
Cd	150-100-485	150-500-485	Sb	150-100-515	150-500-515
Ce	150-100-585	150-500-585	Si	150-100-145	150-500-145
Co	150-100-275	150-500-275	Sn	150-100-505	150-500-505
Cr	150-100-245	150-500-245	Sr	150-100-385	150-500-385
Cu	150-100-295	150-500-295	Ti	150-100-225	150-500-225
Fe	150-100-265	150-500-265	V	150-100-235	150-500-235
In	150-100-495	150-500-495	W	150-100-745	150-500-745
K	150-100-195	150-500-195	Y	150-100-395	150-500-395
La	150-100-575	150-500-575	Zn	150-100-305	150-500-305

# MULTI-ELEMENT STANDARDS

AVAILABLE IN DIFFERENT CONCENTRATIONS, SIZES & BLENDS

MULTI-ELEMENT STANDARDS, BLENDED IN 75 cSt BLANK OIL					
Concentration	S-21		Concentration	S-12	
	100 g	200 g		ppm	100 g
<b>10</b>	150-021-002	150-021-018	<b>10</b>	150-012-001	150-012-009
<b>30</b>	150-021-008	150-021-027	<b>30</b>	150-012-004	150-012-012
<b>50</b>	150-021-010	150-021-030	<b>50</b>	150-012-006	150-012-014
<b>100</b>	150-021-003	150-021-019	<b>100</b>	150-012-002	150-012-010
<b>300</b>	150-021-009	150-021-028	<b>300</b>	150-012-005	150-012-013
<b>500</b>	150-021-011	150-021-031	<b>500</b>	150-012-007	150-012-015
<b>900</b>	150-021-015	150-021-035	<b>900</b>	150-012-008	150-012-016

AM-SPECIAL		
ppm	100 g	200 g
<b>100</b>	150-250-005	150-250-015
<b>300</b>	150-250-008	150-250-019
<b>500</b>	150-250-010	150-250-023
<b>900</b>	150-250-014	150-250-027

S-21: Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, P, Pb, Si, Sn, Ti, V, Zn

S-12: Ag, Al, Cr, Cu, Fe, Mg, Na, Ni, Pb, Si, Sn, Ti

AM-Special: Ba, Ca, Mg, P, Zn

# D-SERIES® BLENDED STANDARDS

GUARANTEED STABILITY & ACCURACY

STANDARD	DEPT. OF DEFENSE NSN	CATALOGUE NUMBER
D3-100	9150-01-283-0249	150-300-019
D12-5	9150-01-307-3343	150-300-005
D12-10	9150-00-179-5145	150-300-001
D12-30	9150-00-179-5144	150-300-003
D12-50	9150-00-179-5143	150-300-006
D12-100	9150-00-179-5142	150-300-002
D12-300	9150-00-179-5141	150-300-004
D19-0	9150-00-179-5137	150-300-008
D19 Set	9150-01-355-1178	150-300-018

## METALLO-ORGANIC STANDARDS

D3, D12, D19, Custom-D products

ppm	D3 (200g)	D12 (200g)	D19 (200g)
0 (blank)		(see below)	
5	**	150-300-005	150-300-013
10	**	150-300-001	150-300-009
30	**	150-300-003	150-300-011
50	**	150-300-006	150-300-014
100	150-300-019	150-300-002	150-300-010
300	**	150-300-004	150-300-012
500	**	**	150-300-015
700	**	**	150-300-016
900	**	**	150-300-017

D3: B, Mo, Zn

D12: Ag, Al, Cr, Cu, Fe, Mg, Na, Ni, Pb, Si, Sn, Ti

D19: Ag, Al, B, Ba, Cd, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, Pb, Si, Sn, Ti, V, Zn

Blank oil for D-Series: 150-300-008

\*\*\* Custom ppm preparations available

PRODUCT	CATALOGUE NUMBER
D19 set	150-300-018

The D-19 set comprises the following concentrations and quantities:

ppm	D19	QUANTITY (100 g)
0 (blank)	150-300-008	4
5	150-300-013	1
10	150-300-009	1
30	150-300-011	1
50	150-300-014	1
100	150-300-010	3
300	150-300-012	2
500	150-300-015	1
700	150-300-016	1
900	150-300-017	1

# ELEMENT BLANK OILS

## BASE & BLANK OILS

PROPERTIES		
	20 cSt Base Oil	75 cSt Base Oil
Specific gravity (25°C/25°C)	0.84 - 0.86	0.86 - 0.89
Viscosity at 40°C	14 - 18 cSt	65 -
Viscosity at 100°C	3 - 4 cSt	72 cSt 8.1- 8.7 cSt
Pour point	-7°C (+20°F)	-15°C (+5°F)
Flash point (minimum)	175°C (345°F)	215°C (420° F)
Trace metals	<0.10 ppm	<0.1 5 ppm

### Base Oils

Base oils are used for blending calibration standards for spectrometric analysis of metals in oil. Typical properties are tabled above. Note that these oils are not certified.

SIZE	20 cSt	75 cSt
500 ml	150-020-004	150-075-005
3.78 L	150-020-003	150-075-004

### Blank Oils

Physical properties as above base oil but are supplied complete with a Certificate of Analysis including actual elemental concentration useful for blank subtraction in ICP AES/MS.

SIZE	20 cSt	75 cSt
100 g	150-020-002	150-075-003
400 g	150-020-001	150-075-002
3.78 L	150-020-005	150-075-006

## STABILIZER

### FOR STANDARDS DILUTION

CATALOGUE NUMBER	DESCRIPTION	SIZE
150-010-001	Stabilizer Standard	50g

## PREMISOLV™

### ICP SOLVENT

CATALOGUE NUMBER	DESCRIPTION	SIZE
150-700-002	PremiSolv™	5 Gallons
150-700-003	PremiSolv™	1 Gallon
150-700-000	ICP Solvent - Sample	400 ml

## FLASH POINT STANDARDS

ASTM D 93 Nominal Flash Point (°C)	CATALOGUE NUMBER (80 ml)	CATALOGUE NUMBER (250 ml)
53	150-900-000	150-900-050
69	150-900-005	150-900-055
81	150-900-010	150-900-060
104	150-900-015	150-900-065
112	150-900-020	150-900-070
116	150-900-025	150-900-075
134	150-900-030	150-900-080
186	150-900-035	150-900-085
231	150-900-040	150-900-090
244	150-900-045	150-900-095

# FTIR

## OPERATIONAL TEST STANDARDS

CATALOGUE NUMBER	DESCRIPTION
150-702-001	Conostan FTIR BR 1.0 Test Standard, 100g

Varian®	PerkinElmer®	Thermo Nicolet®
Available	Unavailable. Please contact PerkinElmer®	Unavailable. Please contact Thermo Nicolet®

## METAL IN CRUDE & RESIDUAL OIL

Metals in Crude Oil in accordance to ASTM D5708 and D5863. Complete with a Certificate of Analysis.

Iron, ppm	Nickel, ppm	Vanadium, ppm	Catalogue # (100 ml)
1	2	2	150-451-100
300	10	500	150-451-105
500	100	25	150-451-110
100	80	250	150-451-115
200	40	100	150-451-120
400	5	400	150-451-125
1	60	300	150-451-130
500	2	200	150-451-135
100	100	2	150-451-140
300	50	250	150-451-145
200	20	500	150-451-150
50	100	50	150-451-155
<b>Complete Set</b>			<b>150-451-060</b>



Metals in Residual Oil in accordance to ASTM D5708 and D5863. Complete with a Certificate of Analysis.

Iron, ppm	Nickel, ppm	Vanadium, ppm	Catalogue # (100 ml)
1	2	2	150-421-000
300	10	500	150-421-005
500	100	25	150-421-010
100	80	250	150-421-015
200	40	100	150-421-020
400	5	400	150-421-025
1	60	300	150-421-030
500	2	200	150-421-035
100	100	2	150-421-040
300	50	250	150-421-045
200	20	500	150-421-050
50	100	50	150-421-055
<b>Complete Set</b>			150-421-060

## PARTICLE STANDARDS

### PARTISTAN™ AUTOMATIC PARTICLE COUNTER STANDARDS

CATALOGUE NUMBER	DESCRIPTION
150-701-001	PartiStan 2806 Calibration Fluid, 400 ml
150-701-002	PartiStan Resolution Standard, 400 ml
150-701-003	PartiStan Super Clean Fluid, 400 ml
150-701-004	PartiStan Super Clean Fluid, 3.78 L
150-701-005	PartiStan Ultra Fine Test Dust Standard, 400 ml

# SULFUR IN BIODIESEL

COMPLETE WITH A CERTIFICATE OF ANALYSIS

<b>SULFUR IN BIODIESEL</b>	<b>5% BIODIESEL (B5)</b>	<b>20% BIODIESEL (B20)</b>	<b>100% BIODIESEL (B100)</b>
<b>ppm</b>	<b>CATALOGUE NUMBER</b>	<b>CATALOGUE NUMBER</b>	<b>CATALOGUE NUMBER</b>
Blank (0)	<a href="#">150-440-000</a>	<a href="#">150-440-050</a>	<a href="#">150-440-100</a>
<a href="#">5</a>	<a href="#">150-440-005</a>	<a href="#">150-440-055</a>	<a href="#">150-440-105</a>
<a href="#">10</a>	<a href="#">150-440-010</a>	<a href="#">150-440-060</a>	<a href="#">150-440-110</a>
<a href="#">15</a>	<a href="#">150-440-015</a>	<a href="#">150-440-065</a>	<a href="#">150-440-115</a>
<a href="#">30</a>	<a href="#">150-440-020</a>	<a href="#">150-440-070</a>	<a href="#">150-440-120</a>
<a href="#">50</a>	<a href="#">150-440-025</a>	<a href="#">150-440-075</a>	<a href="#">150-440-125</a>
<a href="#">75</a>	<a href="#">150-440-030</a>	<a href="#">150-440-080</a>	<a href="#">150-440-130</a>
<a href="#">100</a>	<a href="#">150-440-035</a>	<a href="#">150-440-085</a>	<a href="#">150-440-135</a>
<a href="#">200</a>	<a href="#">150-440-040</a>	<a href="#">150-440-090</a>	<a href="#">150-440-140</a>
<a href="#">500</a>	<a href="#">150-440-045</a>	<a href="#">150-440-095</a>	<a href="#">150-440-145</a>

# SULFUR IN DIESEL FUEL

AVAILABLE IN A WIDE RANGE OF CONCENTRATION

<b>SULFUR IN DIESEL FUEL STOCKED STANDARDS</b>		
<b>100g(4oz) Product Size</b>		
<b>Catalogue Number(100g)</b>	<b>Concentration ug/g</b>	<b>Concentration Weight % S</b>
150-410-012	Blank (<0.02)	Blank
150-410-008	5	0.0005
150-410-001	10	0.0010
150-410-005	15	0.0015
150-410-013	25	0.0025
150-410-009	50	0.005
150-410-014	75	0.0075
150-410-002	100	0.01
150-410-015	200	0.02
150-410-016	300	0.03
150-410-017	400	0.04
150-410-010	500	0.05
150-410-018	750	0.075
150-410-003	1000	0.1

150-410-019	1500	0.15
150-410-020	3000	0.3
150-410-011	5000	0.5
150-410-021	7500	0.75
150-410-004	10000	1.0
150-410-006	15000	1.5
150-410-007	20000	2.0
150-410-022	30000	3.0
150-410-023	40000	4.0

## SULFUR IN MINERAL OIL

AVAILABLE IN A WIDE RANGE OF CONCENTRATION

CATALOGUE NUMBER (100g)	ug/g	DESCRIPTION
150-400-025	0	0 (blank)
150-400-001	10	0.001% (10ppm)
150-400-002	100	0.01% (100 ppm)
150-400-003	1000	0.100% (1000ppm)
150-400-004	10000	1.00% (10,000ppm)
150-400-005	15000	1.5% (15,000ppm)
150-400-006	20	0.002% (20ppm)
150-400-007	200	0.0200% (200ppm)
150-400-008	20000	2.00% (20,000ppm)
150-400-009	25	0.0025% (25ppm)
150-400-010	250	0.025% (250ppm)
150-400-011	2500	0.25% (2500ppm)
150-400-012	25000	2.5% (25,000ppm)
150-400-013	300	0.03% (300ppm)
150-400-014	30000	3.00% (30,000ppm)
150-400-015	35000	3.5% (35,000ppm)
150-400-016	40000	4.00% (40,000ppm)
150-400-017	45000	4.5% (45,000ppm)

## SULFUR IN CRUDE OIL

VARIOUS CONCENTRATIONS AVAILABLE

ppm	CATALOGUE NUMBER (100 ml)
500	150-450-100
1,000	150-450-105
1,500	150-450-120
2,500	150-450-110
5,000	150-450-115
10,000	150-450-125
20,000	150-450-130
30,000	150-450-135
40,000	150-450-140
50,000	150-450-145

## SULFUR IN RESIDUAL OIL

VARIOUS CONCENTRATIONS AVAILABLE

ppm	CATALOGUE NUMBER (45g)	CATALOGUE NUMBER (85g)
2,500	150-420-100	150-420-005
3,500	150-420-105	150-420-010
5,000	150-420-110	150-420-015
7,500	150-420-120	150-420-020
10,000	150-420-125	150-420-025
15,000	150-420-130	150-420-030
20,000	150-420-135	150-420-035
25,000	150-420-140	150-420-040
30,000	150-420-145	150-420-045
35,000	150-420-150	150-420-050
40,000	150-420-155	150-420-055
50,000	150-420-160	150-420-060

# SULFUR IN ISOCTANE

DEVELOPED IN ACCORDANCE WITH ASTM METHODS

CONCENTRATION(ppm)	CATALOGUE NUMBER	DESCRIPTION
0, 0.5, 1.0, 2.5, 5.0, 7.5, 10	150-430-010	For very low Sulfur level, set of 7 x 10 ml vials. Complete with a Certificate of Analysis.
0, 5.0, 10, 25, 50, 100, 250	150-430-020	For low Sulfur level, set of 7 x 10 ml vials. Complete with a Certificate of Analysis.
0, 50, 100, 250, 500, 750, 1000	150-430-030	For high Sulfur level, set of 7 x 10 ml vials. Complete with a Certificate of Analysis.

## SULFUR IN ISOCTANE (60 ml)

Catalogue Number	ppm
150-430-101	0 (Blank)
150-430-102	50
150-430-103	100
150-430-104	250
150-430-105	500
150-430-106	750
150-430-107	1000
150-430-100	Set of 7

## TOTAL ACID NUMBER (TAN) & TOTAL BASE NUMBER (TBN) STANDARDS

### TOTAL ACID NUMBER (TAN) STANDARDS

Catalogue #	Description	Size
150-800-011	0.1 mg/g KOH	75 g
150-800-051	0.5 mg/g KOH	75 g
150-800-101	1.0 mg/g KOH	75 g
150-800-151	1.5 mg/g KOH	75 g
150-800-205	2.0 mg/g KOH	75 g
150-800-255	2.5 mg/g KOH	75 g
150-800-305	3.0 mg/g KOH	75 g
150-800-455	4.5 mg/g KOH	75 g

### TOTAL BASE NUMBER (TBN) STANDARDS

Catalogue #	Description	Size
150-801-011	1.0 mg/g KOH	75 g
150-801-031	3.0 mg/g KOH	75 g
150-801-065	6.0 mg/g KOH	75 g
150-801-105	10 mg/g KOH	75 g
150-801-155	15 mg/g KOH	75 g
150-801-305	30 mg/g KOH	75 g
150-801-405	40 mg/g KOH	75 g
150-801-705	70 mg/g KOH	75 g

# VISCOSITY STANDARDS

VOLUME										
Viscosity Standards	125 ml	500 ml	1 L	4 L	20 L					
S3	150-600-351	150-600-352	150-600-353	150-600-354	150-600-355					
N4	150-600-441	150-600-442	150-600-443	150-600-444	150-600-445					
S6	150-600-141	150-600-142	150-600-143	150-600-144	150-600-145					
N10	150-600-181	150-600-182	150-600-183	150-600-184	150-600-185					
S20	150-600-221	150-600-222	150-600-223	150-600-224	150-600-225					
N35	150-600-261	150-600-262	150-600-263	150-600-264	150-600-265					
N44	150-600-461	150-600-462	150-600-463	150-600-464	150-600-465					
S60	150-600-301	150-600-302	150-600-303	150-600-304	150-600-305					
N100	150-600-341	150-600-342	150-600-343	150-600-344	150-600-345					
S200	150-600-231	150-600-232	150-600-233	150-600-234	150-600-235					
N350	150-600-361	150-600-362	150-600-363	150-600-364	150-600-365					
N415	150-600-471	150-600-472	150-600-473	150-600-474	150-600-475					
S600	150-600-241	150-600-242	150-600-243	150-600-244	150-600-245					
N1000	150-600-371	150-600-372	150-600-373	150-600-374	150-600-375					
S2000	150-600-381	150-600-382	150-600-383	150-600-384	150-600-385					
N4000	150-600-391	150-600-392	150-600-393	150-600-394	150-600-395					
S8000	150-600-401	150-600-402	150-600-403	150-600-404	150-600-405					
N15000	150-600-411	150-600-412	150-600-413	150-600-414	150-600-415					
S30000	150-600-421	150-600-422	150-600-423	150-600-424	150-600-425					
Kinematic Viscosity in mm <sup>2</sup> /s (Centistokes)										Saybolt Viscosity
Viscosity Standards	20 °C/ 68 °F	25 °C/ 77 °F	37.78 °C/ 100 °F	40 °C/ 104 °F	50 °C/ 122 °F	60 °C/ 140 °F	80 °C/ 176 °F	98.89 °C/ 210 °F	100 °C/ 212 °F	37.78 °C/ 100 °F
	S3	4.5	4.0	3.0	2.8	2.4	2.0	1.5	1.2	1.2
N4	6.7	5.8	4.2	4.0	3.2	2.6	1.9	1.5	1.4	
S6	10	8.8	6.0	5.7	4.5	3.6	2.5	1.9	1.9	
N10	21	17	11	10	7.5	5.8	3.7	2.7	2.6	
S20	46	35	20	18	13	9.0	5.6	3.6	3.5	87
N35	90	67	36	32	21	15	8.4	5.4	5.3	167
N44	110	86	48	44	30	21	12	7.6	7.4	220
S60	160	119	60	54	35	26	12	7.7	7.5	281
N100	318	228	110	97	60	39	20	11	11	509
S200	715	487	206	180	103	64	30	17	16	954
N350	1400	940	370	330	180	110	46	24	23	1730
N415	1900	1200	480	410	220	130	55	29	28	2200
S600	2380	1560	595	511	273	158	64	33	32	
N1000	5100	3300	1200	1000	520	290	110	52	50	
S2000	8200	5200	1900	1600	780	400	150	70	68	
N4000	18000	11000	3900	3300	1600	840	280	123	117	
S8000	37000	23000	7900	6700	3200	1600	520	210	200	

<b>N15000</b>	64000	40000	13000	11000	5300	2700	850	340	320
<b>S30000</b>		80000	28000	23000	11000	5800	1700	670	640

Dynamic Viscosity in mPa.S (Centipoise)										Saybolt Viscosity
Viscosity Standards	20 °C/ 68 °F	25 °C/ 77 °F	37.78 °C/ 100 °F	40 °C/ 104 °F	50 °C/ 122 °F	60 °C/ 140 °F	80 °C/ 176 °F	98.89 °C/ 210 °F	100 °C/ 212 °F	37.78 °C/ 100 °F
<b>S3</b>	3.7	3.3	2.4	2.3	1.9	1.6	1.2	0.9	0.9	
<b>N4</b>	5.6	4.8	3.4	3.2	2.6	2.1	1.5	1.1	1.1	
<b>S6</b>	8.7	7.3	5.0	4.7	3.6	2.9	2.0	1.5	1.4	
<b>N10</b>	18	14	9.0	8.4	6.2	4.7	3.0	2.1	2.1	
<b>S20</b>	40	30	17	15	11	7.6	4.7	2.9	2.9	87
<b>N35</b>	78	59	31	28	18	13	7.0	4.4	4.3	167
<b>N44</b>	91	71	39	36	24	17	9.4	6.0	5.8	220
<b>S60</b>	138	102	52	46	30	22	9.9	6.3	6.1	281
<b>N100</b>	276	197	94	83	51	33	16	9.4	9.1	509
<b>S200</b>	613	416	174	152	87	54	24	15	13	954
<b>N350</b>	1200	810	320	280	150	92	38	20	19	1730
<b>N415</b>	1600	1100	410	350	190	110	45	23	23	2200
<b>S600</b>	2063	1348	510	437	232	133	53	27	26	
<b>N1000</b>	4400	2800	1000	940	440	240	92	43	41	
<b>S2000</b>	7200	4500	1600	1400	670	340	130	58	56	
<b>N4000</b>	16000	9700	3400	2900	1400	720	240	100	98	
<b>S8000</b>	33000	20000	6900	5900	2800	1400	440	180	170	
<b>N15000</b>	57000	36000	11000	9700	4700	2400	730	290	270	
<b>S30000</b>		72000	25000	20000	9700	5100	1500	570	550	

Density in g/ml in accordance with ASTM D7042									
Viscosity Standards	20 °C/ 68 °F	25 °C/ 77 °F	37.78 °C/ 100 °F	40 °C/ 104 °F	50 °C/ 122 °F	60 °C/ 140 °F	80 °C/ 176 °F	98.89 °C/ 210 °F	100 °C/ 212 °F
<b>S3</b>	0.833	0.830	0.821	0.820	0.813	0.806	0.792	0.779	0.778
<b>N4</b>	0.834	0.831	0.822	0.820	0.814	0.807	0.793	0.780	0.780
<b>S6</b>	0.831	0.828	0.819	0.818	0.811	0.805	0.791	0.779	0.778
<b>N10</b>	0.842	0.839	0.831	0.829	0.823	0.816	0.804	0.791	0.791
<b>S20</b>	0.871	0.868	0.860	0.859	0.852	0.846	0.833	0.821	0.820
<b>N35</b>	0.872	0.869	0.861	0.860	0.853	0.847	0.834	0.823	0.822
<b>N44</b>	0.828	0.825	0.817	0.816	0.809	0.803	0.791	0.779	0.779
<b>S60</b>	0.863	0.860	0.852	0.851	0.845	0.839	0.826	0.815	0.814
<b>N100</b>	0.867	0.864	0.857	0.855	0.849	0.843	0.831	0.820	0.819
<b>S200</b>	0.858	0.855	0.847	0.846	0.840	0.834	0.822	0.910	0.810



<b>N350</b>	0.863	0.860	0.852	0.851	0.845	0.839	0.827	0.816	0.815
<b>N415</b>	0.865	0.862	0.854	0.853	0.847	0.841	0.830	0.819	0.818
<b>S600</b>	0.867	0.864	0.856	0.855	0.849	0.843	0.832	0.821	0.820
<b>N1000</b>	0.872	0.869	0.862	0.860	0.855	0.849	0.837	0.826	0.826
<b>S2000</b>	0.876	0.873	0.865	0.864	0.858	0.853	0.841	0.831	0.830
<b>N4000</b>	0.882	0.879	0.872	0.871	0.865	0.860	0.849	0.838	0.838
<b>S8000</b>	0.888	0.885	0.878	0.877	0.872	0.866	0.855	0.845	0.845
<b>N15000</b>	0.893	0.891	0.884	0.883	0.877	0.872	0.861	0.851	0.851
<b>S30000</b>		0.896	0.889	0.888	0.883	0.877	0.867	0.857	0.857