



NEW

**Cerium Standards
Sulfur-in-Oil Standards
Viscosity Standards**

.....
*“The benchmark
for accurate
measurements”*



Notes

CONOSTAN[®]

Oil Analysis Standards

A Division of **SCP SCIENCE**

Calibration & Verification Standards for Analysis of:

- Lubricants: New and In-service
- Lubricant Additives
- Petroleum Products
- Organic Fluids / Materials



Sulfur-in-Oil Standards
see page 13



Cerium Standards
see page 6



Viscosity Standards
see page 16

President's Message

On September 21, 2007, ConocoPhillips and SCP SCIENCE signed a purchase-sale agreement whereby SCP SCIENCE would acquire the complete assets of Conostan from ConocoPhillips Speciality Products Division.

The assets included all aspects of the Conostan business, including trade names, websites, documentation, customer lists, current customer transactions, and the unique chemistry that has made Conostan the leader in metallo-organic standards around the world. The closing of the purchase-sale transaction was November 30, 2007, at which time ConocoPhillips officially handed over the Conostan business to SCP SCIENCE. Training and site conversion had already been underway for several months.



The complete Conostan business — production, quality control, inventory, customer records — is now located at the SCP SCIENCE manufacturing facility in Baie-D'Urfé, a suburb of Montreal, Quebec, Canada.

Conostan customers can now avail themselves of the opportunity for savings by purchasing their Conostan oil-based standards together with instruments, supplies, and aqueous standards for AA, ICP, XRF and rotrode spectroscopy from a single source.

It is our pleasure to welcome new and existing Conostan customers and an honour to serve you.

George Feilders
President

Custom quotation request form for metallo-organic standards

Complete this form to receive a quotation for your specific oil-based standard. Photocopy for use with multiple requests.

Contact Information

Name: _____
Company: _____
Mailing address: _____
City: _____ State/Province: _____
Country: _____ Zip/Postal code: _____
Telephone: _____ Fax: _____
E-mail: _____ Account number: _____

Please indicate the concentration (ppm) required for each element:

	ppm		ppm		ppm
Ag		Fe		Pb	
Al		In		Sb	
B		K		Sc	
Ba		La		Si	
Be		Li		Sn	
Bi		Mg		Sr	
Ca		Mn		Ti	
Cd		Mo		V	
Co		Na		W	
Cr		Ni		Y	
Cu		P		Zn	

Size (g): _____ Rate of use (L/year): _____
Special requirements: _____ Custom name: _____
Application: _____
Base Oil: ☐ 20 cSt ☐ 75 cSt ☐ 245 cSt

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Metallo-Organic Standards

Our Reputation

SCP SCIENCE is proud to present its Conostan line of metallo-organic elements-in-oil standards. Conostan is the world's most trusted name in oil standards, whose industry-leading position is the result of a uniquely superior product chemistry and manufacturing technology together with proprietary blending techniques.



The Conostan brand traces back over 30 years, when the U.S. Department of Defense's Spectrometric Oil Analysis Program Standards Committee needed standards to analyze metals in lubricating oils to conduct wear-metals-analysis. At the time, commercially available metals-in-oil standards were unreliable and made calibrating analytical instrumentation difficult. Conostan's research and development department discovered and developed the chemistry for producing reliable element-in-oil standards, which were adopted by the Department of Defense.

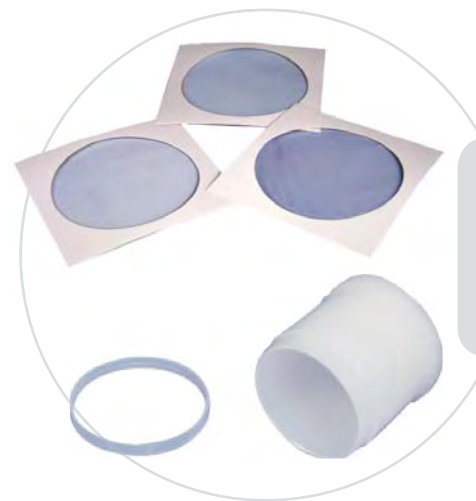
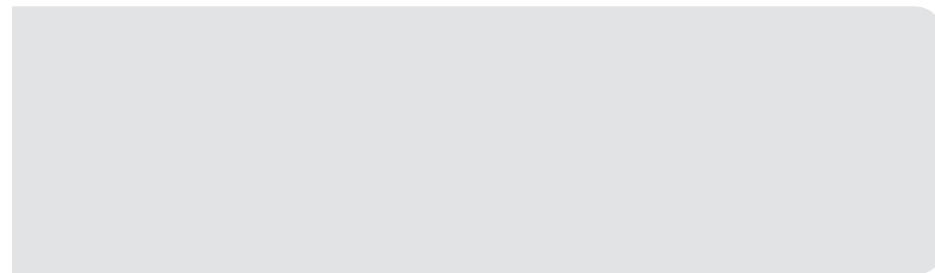
Conostan is also the only source of multi-element metallo-organic standards in the history of the National Institute of Standards and Technology (NIST) — the reference material NIST-108b is Conostan S-21:300.

Our Products

Oil standards are used extensively in the calibration and operation of instruments that analyze elements in oil and other organic fluids. Our product lines offer a wide variety of reference standards, solvents, and reagents for ICP, DCP, rotating disk electrode, XRF, AA, and other analytical spectrometric techniques.

Our products are optimized for:

- **Compatibility** – We offer combinations of 38 different elements over an extensive concentration range.
- **Solubility** – Our standards are soluble in a variety of substances: ketones, mineral oil, xylene, kerosene, etc. We also produce blank oils and a kerosene-alternative for use as solvents.
- **Volatility** – Our standards are made in ultra-pure, highly processed hydrocarbon oil only: no solubilizers are used, making our standards extremely stable to volatile loss.
- **Viscosity** – The viscosity range of our standards at room temperature is ideal for instrumental applications.
- **Instrumental response** – Our standards provide excellent analytical response over a wide range of applications.
- **Shelf life** – All Conostan element standards and spectroscopy products have a one-year minimum shelf life from the date of shipment.



XRF Supplies

- Sample cells
- XRF thin film (Mylar, Prolene, Kapton, etc.)

Sample Preparation Systems

- **DigiPREP** digestion systems



CONOSTAN[®]

Oil Analysis Standards

A Division of **SCP SCIENCE**

ICP AES/MS Supplies

- Torches
- Spray chambers
- Nebulizers
- High purity acids



Atomic Absorption Supplies

- Hollow cathode lamps
- Graphite furnace tubes
- Autosampler tubes
- Calibration Standards



Applications

Conostan standards are used extensively in a variety of industries: energy, environmental, aircraft, railroad, automotive, heavy equipment, mining, chemical, and others. Essentially, wherever calibration of instruments for analyzing metals in oil and other organics is needed, Conostan standards provide consistent composition and performance.

Typical uses:

1. For ICP, DCP, AA, and rotating disk emission spectrometric determinations of trace metals in organic materials, such as wear metals in used lubricating oils.
2. In AA and ICP spectrometric analyses of oils and other organics for As, Ba, Cd, Cr, Pb, Se, and other metals of environmental concern.
3. In AA and ICP emission analyses for trace metals in organics such as Co and Ni from metal-catalyzed reactions.
4. For XRF determinations of multi-element mixtures in organic systems such as Fe, Ni, Cu, and V in crude oils.
5. For emission spectrometric determinations of additive metals such as Ba, Ca, Mg, P, and Zn for quality control of motor oil formulations.
6. As internal standards and matrix adjustment components, and for the preparation of special multi-element blended standards to meet specific calibration requirements.



Metallo-Organic Standards

Conostan metallo-organic standards are oil-based metal calibration standards for use with ICP, AA, rotrode, XRF, DCP, flame emission, and other instruments.

Single-Element Standards

Blended in 20 cSt blank oil (size: 50 g)

	1000 ppm	5000 ppm		1000 ppm	5000 ppm
Ag	150-100-475	150-500-475	Li	150-100-035	150-500-035
Al	150-100-135	150-500-135	Mg	150-100-125	150-500-125
As	150-100-335	---	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
Ce	150-100-585	150-500-585	Sb	150-100-515	150-500-515
Cd	150-100-485	150-500-485	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

	2000 ppm
Sc	150-500-215

	100 ppm
As*	150-101-331
Hg*	150-101-801
Se*	150-101-341

* size: 100 g

PartiStan - Particle Counting Standards

PartiStan particle standards are designed for calibration and verification of automatic particle counters.

Product History

In 1999, a new calibration procedure (ISO 11171) for automatic particle counters was introduced, rendering previous procedures (i.e. ISO 4402) obsolete. With the new procedure, primary calibration requires NIST SRM 2806—a suspension of 2.8 µg/ml of ISO medium test dust in super-clean hydraulic fluid. This is available from Conostan as PartiStan 2806.



Conostan also offers a secondary standard for conducting verifications of working instruments or to calibrate more than one instrument in a laboratory. PartiStan secondary standards are compliant with ISO 11171 and prepared using SRM 2806.

Description	Size	Catalogue #
PartiStan 2806	400 ml	150-701-001
PartiStan resolution standard	400 ml	150-701-002
PartiStan SCF (super-clean fluid)	400 ml	150-701-003
PartiStan SCF (super-clean fluid)	3.78 L (1 gallon)	150-701-004
PartiStan UFTD (ultra-fine test-dust suspension in SCF)	400 ml	150-701-005

FTIR Standard

Our FTIR operational test standard is a petroleum oil-based fluid that looks and handles like routinely tested used-oil samples. It is designed for validating FTIR instrument performance in order to ensure repeatability and reproducibility.

Description	Size	Catalogue #
FTIR operational test standard	100 g	150-702-001

For initial setup, we include a disk containing the analytical methods necessary to perform tests with information specific to your instrument:

- DigiLab (Varian) – available
- PerkinElmer – not yet available (contact the manufacturer)
- Thermo Nicolet – not yet available (contact the manufacturer)

Typical Specifications for Conostan Viscosity Standards (Continued)

Density in g/ml in accordance with ASTM D7042									
	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
S6	0.831	0.828	0.819	0.818	0.811	0.805	0.791	0.779	0.778
N10	0.842	0.839	0.831	0.829	0.823	0.816	0.804	0.791	0.791
S20	0.871	0.868	0.860	0.859	0.852	0.846	0.833	0.821	0.820
S600	0.8664	0.8635	0.8561	0.8548	0.849	0.8431	0.8315	0.8204	0.8198
S200	0.858	0.855	0.847	0.846	0.840	0.834	0.822	0.910	0.810
N35	0.872	0.869	0.861	0.860	0.853	0.847	0.834	0.823	0.822
S60	0.863	0.860	0.852	0.851	0.845	0.839	0.826	0.815	0.814
N100	0.867	0.864	0.857	0.855	0.849	0.843	0.831	0.820	0.819
N350	0.8625	0.8596	0.852	0.8507	0.8448	0.8389	0.8272	0.816	0.8153
N1000	0.8719	0.869	0.8616	0.8603	0.8546	0.8488	0.8374	0.8264	0.8258

Multi-Element Standards

Blended in 75 cSt blank oil

ppm	S-21		S-21+K	
	100 g	200 g	100 g	200 g
10	150-021-002	150-021-018	150-021-042	150-021-051
30	150-021-008	150-021-027	150-021-045	150-021-056
50	150-021-010	150-021-030	150-021-047	150-021-058
100	150-021-003	150-021-019	150-021-043	150-021-052
300	150-021-009	150-021-028	150-021-046	150-021-057
500	150-021-011	150-021-031	150-021-048	150-021-059
900	150-021-015	150-021-035	150-021-049*	150-021-061*

* 900 ppm nominal value, 885 ppm actual value

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

ppm	S-12	
	100 g	200 g
10	150-012-001	150-012-009
30	150-012-004	150-012-012
50	150-012-006	150-012-014
100	150-012-002	150-012-010
300	150-012-005	150-012-013
500	150-012-007	150-012-015
900	150-012-008	150-012-016



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

ppm	AM-Special	
	100 g	200 g
900	150-250-014	150-250-027

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

Custom Blends

If you require a combination or concentration of elements that we do not routinely stock, custom blends are available and can be shipped within two working days. To order, you may fill out and mail the form on page (23) of this booklet. We can make:

- Any combination of elements listed here (excluding As, Hg, and Se) at custom concentrations
- Single-element standards at custom concentrations
- S-21, S-12, and AM-Special blends at custom concentrations
- Additions to S-21, S-12, and AM-Special blends

Size: available in 100 g, 200 g, and 400 g

D-Series Standards for Joint Oil Analysis Program (JOAP)

Direct from the Original Source

Conostan D-Series standards are available directly from SCP SCIENCE. Each D-3, D-12, and D-19 standard is furnished with a certificate of analysis.

Conostan is the original source of D-Series standards. More than 30 years ago, the U.S. Department of Defense's Spectrometric Oil Analysis Program Standards Committee required standards for its wear-metals-analysis programs.

With no reliable commercial source of metals-in-oil standards, Conostan's research department set to work in developing a reliable standard. The result was Conostan's uniquely superior product chemistry, which was adopted by the Department of Defense for its D-Series standards.

As with all Conostan products, you are guaranteed that the D-Series of standards are extremely stable and accurate.



Cross Reference with U.S. Dept. of Defense Stock Numbers

Conostan product	Dept. of Defense NSN	Catalog #
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

Typical Specifications for Conostan Viscosity Standards

	Kinematic Viscosity in mm ² /s (Centistokes)									Saybolt Viscosity
	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 °C/ 100 °F
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
S600	2400	1600	600	520	280	160	66	34	32	
S200	715	487	206	180	103	64	30	17	16	954
N35	90	67	36	32	21	15	8.4	5.4	5.3	167
S60	160	119	60	54	35	26	12	7.7	7.5	281
N100	318	228	110	97	60	39	20	11	11	509
N350	1400	940	370	330	180	110	46	24	23	1730
N1000	5100	3300	1200	1000	520	290	110	52	50	

	Dynamic Viscosity in mPa.S (Centipoise)									Saybolt Viscosity
	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 °C/ 100 °F
S6	8.7	7.3	5.0	4.7	3.6	2.9	2.0	1.5	1.4	
N10	18	14	9.0	8.4	6.2	4.7	3.0	2.1	2.1	
S20	40	30	17	15	11	7.6	4.7	2.9	2.9	87
S600	2100	1400	510	440	240	140	55	28	26	
S200	613	416	174	152	87	54	24	15	13	954
N35	78	59	31	28	18	13	7.0	4.4	4.3	167
S60	138	102	52	46	30	22	9.9	6.3	6.1	281
N100	276	197	94	83	51	33	16	9.4	9.1	509
N350	1200	810	320	280	150	92	38	20	19	1730
N1000	4400	2800	1000	940	440	240	92	43	41	

Viscosity Standards

The same product reliability and stability that our customers trust in metallo-organic standards are now available in General Purpose Viscosity standards. These certified, mineral oil based, viscosity standards were developed for calibration and verification of all types of viscometers, including glass capillary viscometers, rotational viscometers, cup and falling ball viscometers. New viscosity standards are coming soon to expand our product line and service this growing market. Visit our website for a complete listing.

All standards are traceable to National Standards and according to ASTM & IP methods. Each standard carries a two year stability guarantee.

The determination of kinematic and dynamic viscosity were made in accordance with ASTM D 445/446 and ISO 3104/3105, ISO/IEC 17025 and are traceable to the NIST (National Institute of Standards and Technology). See specifications overleaf.

All calibrations are based on the master viscometer procedures as in ASTM D 2162 and the National Institute of Standards and Technology (NIST) value of 1.0016 mPa.s (centipoise) for water at 20°C (68°F).

Custom standards are available. Please contact us for more information.



Viscosity Standards	Volume				
	125 ml	500 ml	1 Litre	4 Litre	20 Litre
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
S600	150-600-231	150-600-232	150-600-233	150-600-234	150-600-235
S200	150-600-241	150-600-242	150-600-243	150-600-244	150-600-245
N35	150-600-261	150-600-262	150-600-263	150-600-264	150-600-265
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
N350	150-600-361	150-600-362	150-600-363	150-600-364	150-600-365
N1000	150-600-371	150-600-372	150-600-373	150-600-374	150-600-375

Coming Soon	S3	150-600-351	150-600-352	150-600-353	150-600-354	150-600-355
	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

D-Series Standards

ppm	D3 (200 g)	D12 (200 g)	D19 (100 g)
0 (blank)	150-300-008	150-300-008	150-300-008
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.

D-19 Set

Product	Catalogue #
D-19 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

Custom Blends of D-Series Standards

If you require a combination or concentration of elements that we do not routinely stock, custom blends are available.

We can make:

- Any combination of elements listed previously as custom concentrations
- Single-element standards at custom concentrations
- D-3, D-12, and D-19 blends at custom concentrations
- Additions to D-3, D-12, and D-19 blends

Size: Available in 100 g or 200 g

Available elements:

Ag, Al, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, In, K, La, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Si, Sn, Sr, Ti, V, W, Y, Zn

Used Oil - Certified Reference Material - *EnviroMAT™*

EnviroMAT™ Certified Reference Materials (CRM) can be an invaluable component of any laboratory quality control program. Consensus certification removes any chance of analytical bias.

- Each CRM is certified through a round-robin study employing specific methods of analysis
 - Independant verification from multiple laboratories
- Includes certificate of analysis listing consensus values, confidence and tolerance intervals, and instructions for use
 - Complete documentation for audit purposes

<i>EnviroMAT™</i> Standards	Symbol	Quantity	Catalog Number
Oil, used	HU-1	125ml	140-025-041



Sulfur Standards in Mineral Oil and Diesel Fuel (100g)

Sulfur in Mineral Oil

The sulfur-in-oil product line is designed for calibration of XRF, ICP, and other analytical instruments according to various ASTM methods (such as D2622, D3246, D4294, D5453, D6334, and D6443). Stocked concentrations are shown in the table below.

Sulfur in Diesel Fuel

Our line of sulfur in diesel fuel is specially engineered to have an elevated flash point, making it suitable for shipping as a non-hazardous product. Stocked concentrations are shown in the table below.



Custom Concentrations

For concentrations not listed in the table below, custom concentrations are available in both mineral oil and diesel fuel. Contact us for further information.

ppm	In mineral oil (100g)	In diesel fuel (100g)
0 (blank)	150-400-025	150-410-012
50	150-400-018	150-410-009
100	150-400-002	150-410-002
250	150-400-010	*
500	150-400-019	150-410-010
750	150-400-023	*
1000	150-400-003	150-410-003
2500	150-400-011	*
5000	150-400-020	150-410-011
7500	150-400-024	*
10,000	150-400-004	150-410-004
15,000	150-400-005	150-410-006
20,000	150-400-008	150-410-007
25,000	150-400-012	*
30,000	150-400-014	*
40,000	150-400-016	*
50,000	150-400-021	*

* Custom ppm preparations available

** A Certificate of Analysis reporting concentration and density are included with each standard

Sulfur-in-Residual Oil

ppm	Residual Oil, 50mL	Residual Oil, 100mL
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

Miscellaneous Products for Metallo-Organic Analysis

Base and Blank

Typical Base and Blank Oil Properties

	20 cSt	75 cSt
Specific gravity (25°C/25°C)	0.84–0.86	0.86–0.89
Viscosity: 40°C 100°C	14–18 cSt 3–4 cSt	65–72 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	<0.15 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
1 gal.	150-020-003	150-075-004

Blank Oils

Blank oils are supplied with a Certificate of Analysis including actual elemental concentration useful for blank subtraction in ICP-AES/MS. Physical properties are noted above.

Size	20 cSt	75 cSt
100 g	150-020-002	150-075-003
400 g	150-020-001	150-075-002
1 gal.	150-020-005	150-075-006

Stabilizer

Size	Catalogue #
50 g	150-010-001



PremiSolv ICP Solvent

PremiSolv is a zero-odor alternative to kerosene or xylene for use as a diluent or zero-point standard in ICP/DCP analysis of metals in oil and other organic fluids.

PremiSolv Features:

- Extremely low odor – for a safer, more comfortable working environment
- Extremely low toxicity – compared with kerosene or xylene
- Extremely low metal content – comes with a certificate of analysis listing the concentrations of 34 different metals including sulfur
- Non-hazardous – for shipping and disposal



Size	Catalogue #
3.78 L (1 gallon)	150-700-003
18.9 L (5 gallons)	150-700-002

Want to see
the difference yourself?
Ask for a free 400 ml sample.
Cat. No. 150-700-000

Chlorine-in-Oil Standards

The chlorine product line is designed for calibration of XRF, ICP, and other analytical techniques. Stocked concentrations are shown in the table below.

Custom concentrations are available.

Chlorine Standards (size: 100 g)

ppm	Catalogue #
0 (blank)	150-200-008
10	150-200-001
100	150-200-002
500	150-200-005
1000	150-200-003
5000	150-200-006
10,000	150-200-004
50,000	150-200-007



Sulfur-in-Oil Standards

Conostan offers an expanding line of Sulfur standards that today encompasses four different matrices described below and on the following pages. Sulfur in Crude Oil Standards will be released shortly

The quality of many petroleum products are related to the amount of sulfur present. In fuels, the amount of sulfur is related to its performance characteristics and vehicle emission levels. Levels of sulfur in petroleum and petroleum products are regulated through federal, state and local agencies.



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Sulfur-in-Isooctane

Sulfur in Isooctane by UV

Concentration (ppm)	Catalogue no.	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-Isooctane

Sulfur in Isooctane by XRF

ppm	Isooctane, 60 mL
0 (Blank)	150-430-101
50	150-430-102
100	150-430-103
250	150-430-104
500	150-430-105
750	150-430-106
1,000	150-430-107
Set of 7	150-430-100



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