CERTIFIED PETROLEUM STANDARDS

Test Methods **Page**

Koehler offers laboratory reference standards for our full line of testing equipment. Each test standard comes with original certification listing the ASTM test method, the name and ISO status of each testing laboratory, and the average test result and standard deviation. Please inquire with Koehler's Customer Service Department about further information as well as ordering these reference standards for your testing needs.

Certified Petroleum Reference Standards

- Manufactured and certified for ASTM and related test procedures
- NIST traceable standards developed utilizing ASTM Round Robin trials
- Custom standards available

Koehler offers an extensive range of certified petroleum reference materials meeting the analytical requirements for ASTM, ISO, EPA, and related test methods, and are traceable to National Institute of Standards and Technology.

Complete certification is provided with each standard. Refer to the list below for the reference standard that you require or contact us to discuss your needs for a special standard. Detailed datasheets and quotations for standards listed below or for specially prepared standards are readily available from Koehler by contacting our Customer Service Department. We will respond to you promptly upon receiving your request.

Certified Standards for Petroleum Test Methods

--	PIANO, PONA, PNA by GC
--	O-PONA Method by GC
--	Simulated Distillation (Sim Dis) by GC
D56	Flash Point by Tag Closed Cup
D86	Synthetic Distillation Standard
D92	Flash Point by Cleveland Open Cup
D93	Flash Point by Pensky-Martens Closed Cup
D97	Pour Point
D445	Kinematic Viscosity *(please refer to pages 18-19)*
D611	Aniline Point
D1015	Freezing Point
D1319	Olefin Analysis by FIA
D1744	Water in Liquid Petroleum Products
D2386	Freezing Point
D2500	Cloud Point
D2789	Hydrocarbon Analysis in Gasoline by GC/MS
D2887	Boiling Range by GC
D3230	Salts in Crude Oil
D3231	Phosphorus in Gasoline
D3237	Lead in Gasoline by AA
D3340	Li and Na in Lubricating Greases by Flame Photometer
D3524	Diesel Fuel Analysis by GC
D3605	Trace Metal in Gas Turbine Fuel by AA
D3606	Aromatics in Gasoline by GC
D3610	Total Cobalt Analysis by Potentiometric Titration
D3710	Boiling Range by GC
D3798	p-Xylene Analysis by GC
D3831	Manganese in Gasoline by AA
D4059	PCB Analysis by GC
D4110	Ion Chromatography
D4291	Ethylene Glycol by GC
D4327	Ion Chromatography
D4377	Water in Liquid Petroleum Products
D4420	Aromatics in Gasoline by GC
D4628	Wear Metals in Lube Oil
D4629	Nitrogen by Chemilluminescence
D4815	Oxygenates in Gasoline by GC
D4927	Wear Metals and Additives by WD-XRF
D4928	Water in Liquid Petroleum Products
D4929	Chlorine in Crude Oil by Microcoulometry
D4951	Wear Metals and Additives by ICP
D5056	Trace Metals in Petroleum Coke by AA
D5059	Lead in Gasoline by X-Ray Spectroscopy
D5134	Petroleum Naphthas through n-Nonane Analysis by GC
D5184	Al and Si by ICP
D5186	Aromatics by SFC
D5188	Vapor-Liquid Ratio Temperature

Certified Standards for Petroleum Test Methods (cont'd)

D5191	Vapor Pressure Standards
D5307	Boiling Range Distribution by GC
D5441	MTBE Analysis by GC
D5442	Petroleum Waxes by GC
D5443	PNA Analysis by Multidimensional GC
D5480	Oil Volatility by GC
D5482	Vapor Pressure Standards
D5501	Ethanol Analysis by GC
D5580	Aromatics by GC
D5599	Oxygenates by OFID
D5600	Trace Metals by ICP
D5622	Oxygenates by Reductive Pyrolysis
D5623	Sulfur Compounds by Sulfur Selective Detection
D5708	Trace Metals by ICP
D5762	Nitrogen by Chemilluminescence
D5769	Aromatics by GC/MS
D5771	Cloud Point (Stepped Cooling Method)
D5772	Cloud Point (Linear Cooling Rate)
D5773	Cloud Point (Constant Cooling Rate)
D5863	Trace Metals by AA
D5901	Freezing Point (Auto Optical Method)
D5949	Pour Point (Auto Pressure Pulsing Method)
D5950	Pour Point (Auto Tilt Method)
D5972	Freezing Point
D5985	Pour Point (Rotational Method)
D5986	Oxygenates and Aromatics by GC/FTIR
D6160	PCBs by GC
D6258	Solvent Red 164 Dye Concentration in Diesel Fuels
D6277	Benzene in Spark Ignition Fuels
D6293	Oxygenates in Engine Fuels by GC
D6296	Total Olefins in Spark Ignition Engine Fuels by GC
D6304	Water in Liquid Petroleum Products
D6352	Boiling Range Distribution of Petroleum
D6378	Vapor Pressure
D6379	Aromatic Hydrocarbon by HPLC
D6417	Engine Oil by GC
D6443	Metals in Oil
D6481	Lube Oils by ED-XRF
D6550	Olefin Content of Gasoline by SFC

Sulfur Standards

D2622	Sulfur by XRF
D3120	Sulfur by Oxidative Microcoulometry
D3246	Sulfur in Petroleum Gas by Oxidative Microcoulometry
D4294	Sulfur by ED-XRF
D5453	Sulfur by Ultraviolet Fluorescence
D6334	Sulfur in Gasoline by Wavelength
D6445	Sulfur in Gasoline by ED-XRF

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