

marine and bunker fuels

Koehler Instrument Company's line of analyzers and testers for the marine and bunker fuels industry can be used to test for quality and a wide range of characteristics of both fuels and lubricants. Please inquire with your Koehler sales representative to learn more about our instruments and how they can provide a solution for your specific application. Or visit our website at www.koehlerinstrument.com to find detailed specifications on each of the products you see listed here. All products in this brochure conform to test specification within ISO 8217 Marine Fuel specifications.



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K77000 and K77001 automatic cloud and pour point analyzer

ASTM D5771, D5950 with Excellent Correlation to: ASTM D97, D2500, D5853, D6074, D6158; ISO 3015, 3016; IP 15, 219; DIN 51597; FTM 791-201; NF T 60-105; JIS K2269

The Automatic Cloud and Pour Point Analyzer is a state-of-the-art piece of equipment for measuring cloud point by optical detection and pour point with automatic tilt. The cloud point is an index of the lowest temperature of a petroleum product or a biodiesel fuel's utility for certain applications. Wax crystals of sufficient quantity can plug filters used in some fuel systems. The pour point of a petroleum product is an index of the lowest temperature of its utility for certain applications. Flow characteristics, such as pour point, can be critical for the correct operation of lubricating oil systems, fuel systems, and petroleum blending and pipeline operations.

K90500 and K90590 automatic potentiometric titrator

ASTM D664, D2896, D3227, D4739

Titration is the fundamental chemical analysis procedure whereby the concentration of a chemical substance in solution is determined by reacting it with a measured amount of another chemical. The Automatic Titrator performs this analysis using a motor driven dispenser, stirred reaction vessel and electrodes which sense the completion of reaction by measuring the potential difference between two electrodes. Automatic titration increases accuracy, repeatability and reproducibility as well as minimizing errors in calculation and documentation.



K71000 Automatic Pensky-Martens Closed Cup Flash Point Tester

ASTM D93 Procedure A, B and C; IP 34; ISO 2719; DIN EN 22719; JIS K2265; NF M 07-019

The Automatic Pensky-Martens Closed Cup Flash Point Analyzer represents a perfect union of next-generation technology with traditional robust quality. The 8.4" touch screen interface fully displays all operator parameters and results on a single screen. A three (3) position mechanical lift system for the cover and motor assembly is fully automated and software selectable: Open – Clean – Test for one touch positioning of the test cup. The instrument comes standard with two flash detector systems including a thermocouple and ionization ring detection. Over 65,000 results of data can be stored on the local hard drive. Integrated Dual Fan System directly cools the test cup and the environment around test cup. An unlimited number of user programs can be applied, including a quick test that safely tests from ambient, puts the flash point result into the EFP of the official run, and prompts user to refresh the sample, virtually assuring no fires ever occur. In addition, the instrument comes standard with an inert gas fire suppression system. For a full list of our Flash Point products, visit www.koehlerinstrument.com/products/category/flash-point/

K12200 and K12290 benchtop oxidation baths

ASTM D943, D2274, D2893*, D4310, D6158; AOCs CD12-57**; DIN 51586, 51587; ISO 4263, ISO 12205; NF M 07-047; NF T 60-150

The 8 and 12-unit oxidation baths Evaluate the oxidation stability by subjecting the sample to a temperature of 95°C in the presence of oxygen or dry air. For inhibited mineral oils, the sample is reacted with oxygen in the presence of water and an iron-copper catalyst. Additional units for thirty and sixty place baths are available for high-volume testing requirements.



K23900 kinematic viscosity bath

ASTM D445, D6074, D6158; IP 71; ISO 3104; DIN 51550; FTM 791-305; NF T 60-100

Kinematic viscosity is of primary importance in the design and selection of a wide range of petroleum products. Calibrated capillary viscometers are used to measure flow under gravity or vacuum at precisely controlled temperatures. Constant temperature bath with advanced temperature control circuitry for convenient, accurate glass capillary viscometry determinations. Microprocessor PID circuitry assures precise, reliable temperature control within ASTM specified stability and uniformity throughout the operating range of the bath. Simple push-button controls and dual digital displays permit easy setting and monitoring of bath temperature. Baths accommodate seven glass capillary viscometers of various types.

K86200, K86201 and K86250 automatic density meters

ASTM D1250, D4052, D5002, D5931; ISO 12185; DIN 51757; IP 365

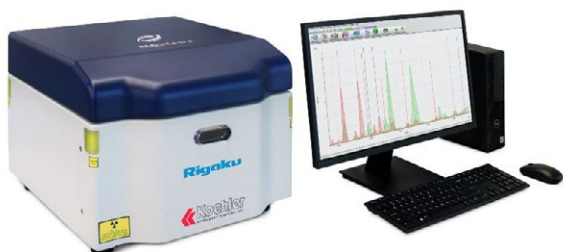
Density is a fundamental physical property that can be used in conjunction with other properties to characterize the quality of crude oils, light and heavy fractions of petroleum and petroleum products. The test method covers the determination of the density or relative density of crude oils, petroleum distillates and viscous oils that can be handled in a normal fashion as liquids at test temperatures between 15 and 35°C.



K47925 EDX3500 benchtop EDXRF elemental analyzer

ASTM D4294, D5059, D7220, ISO 20847, ISO 8754, IP 496, IP 336, JIS K 2541-1. Correlates to ASTM D2622

The K47925 EDXRF can analyze a large array of elements from 11Na to 92U in solids, liquids, alloys, powders and thin films. This Advanced model delivers rapid qualitative and quantitative determination of major and minor atomic elements in a wide variety of sample types. The Silicon Drift Detector (SDD) provides superior data quality and the multiple automated tube filters enhance sensitivity. A polarized excitation is used for lower detection limits.



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For a complete list of Koehler products to suit your Marine & Bunker testing requirements, please contact your Koehler Sales Representative or visit us at www.koehlerinstrument.com/product-packages/marine-and-bunker



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