Karl Fischer Titrators



l ppm to 100 % water content in liquids, solids and gases









aquamax KF



In-lab and on-site water determination

Features

Analysis conform to standards of ASTM, EN, ISO Case for on-site use available Integral printer and battery

Applications

Petroleum products Insulating oils Mineral oils Hudrocarbons Crude oils Lubricating oils Motor oils Transformer oils Hydraulic oils Solvents



Water content of gases

Features

According to standard ASTM D 7995 - 19 Sulfur removal cartridge eliminates side reactions Automated process with up to 250 measurements in 48 h

Applications

LPG, LNG:

propane, propene, butane, butene, butadiene halogenated hydrocarbons ethylene oxide

chlorinated hydrocarbons, e. g. methylene chloride, ethylene chloride, vinyl chloride

Analysis of refrigerants:

Analysis of permanent gases:

natural gas

technical gases and mixtures



Water determination in oil samples

Features

According to standard ASTM D 6304 Additive and Sulphur side reactions minimized No blank value

Applications

Petroleum products Crude oil Insulating oils Gasoline Transformer oil Silicone oil Hydraulic oil Diesel Lubricating oils Jet fuel Engine oil Biopetroleum Bio fuel Gear oil Biological oils



Water content of all types of samples

Features

Variable heating programs up to 300 °C Analysis of samples in closed vials with septum cap Suitable for various vial sizes (2 R to 50 R), plates easy exchangeable

Applications

Pharmaceutical products Power Biological substances Hygr

Freeze-dried products, e. g. lyophilized

Oils and lubricants, creams, pastes

Viscous materials (bitumen, tar, sludges)

Powder and pellets

Hygroscopic compounds

Food Plastics

Metal powder for 3D-printer

Moulded parts



Heating at high temperatures

Features

Sample heating at temperatures up to 1300 °C
Sample dosing into the oven without an interruption of the gas flow
Internal drying of carrier gas

Applications

Inorganic salts Building materials Cement Metals and alloys

Molecular sieves Oxide/hydroxides



Online measurement of water in oils

Features

Connecting with sample lines for automatic sampling Contamination-free transfer of the sample Return of oil sample into system possible

Applications

Transformer oil regeneration
Oil treatment
Preparation of oil products
Pipeline monitoring
Crude petroleum specification

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Flexibility, cost efficiency and easy operation without sample preparation

For use in-lab, on-site and on-line High sample throughput Low reagent consumption - meaning less solvent waste Robust and accurate to 1 ppm No external gases required No blank values ensuring ppm accuracy Robust and alarm style safety features on all ECH titrators Closed loop circulation - meaning no hazardous emissions

Book your online demo in the ECH Studio

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the ECH advantage

in-lab | mobile | on-line | process