

Glass Apparatus for ASTM Test Methods

D848 Acid Wash Color of Industrial Aromatic Hydrocarbons

- K0D848-A** Sample Bottle, 1 ounce capacity, flat bottom, square, glass stoppered and graduated at 7mL and 28mL
- K0D848-B** Individual Color Standard Bottle, 1 ounce capacity, flat bottom, square, glass stoppered, with a specified number (0-14)
- K0D848-C** Set of Fifteen (15) Color Standard Bottles numbered 0-14, empty
- K0D848-D** Individual Color Standard Bottle, filled with specific number solution
- K0D848-E** Set of Fifteen(15) Color Standard bottles (0-14) filled
- K0D848-F** Color Standard Set with Case, lighted white plexiglass, full set of color standards sealed in bottles, and two sample bottles

D854 Determination of Specific Gravity

- K0D369-1** Specific Gravity Bottle, Gas-Lussac, 1mL, Unadjusted
- K0D369-2** Specific Gravity Bottle, Gas-Lussac, 2mL, Unadjusted
- K0D369-5** Specific Gravity Bottle, Gas-Lussac, 5mL, Unadjusted
- K0D369-10** Specific Gravity Bottle, Gas-Lussac, 10mL, Unadjusted

D888 Determination of Dissolved Oxygen in Water

- K0D888** Gas Collecting Tube, McLean type, 500mL, 3mm stopcocks, graduated 2mL on tube ends

D889 Determination of Volatile Oil in Rosin

- K0D889** Distillation Receiver, 5mL in 0.1mL divisions, S/T 24/40

D891 Determination of Specific Gravity of Liquid Chemicals, Halogenated Organic Solvents, Ethylene Glycols, Propylene Glycols

- K0D891-25** Specific Gravity Bottle for Volatile Liquids, 25mL, jacketed
- K0D891-50** Specific Gravity Bottle for Volatile Liquids, 50mL, jacketed

D914 Testing Ethylcellulose and Methylcellulose

- K0D914** Apparatus for Testing Ethylcellulose

D941 Density and Relative Density (Specific Gravity) of Liquids by Lipkin Bicapillary Pycnometer

- K0D941** Pycnometer, side-arm type, 4.5 ±0.5mL, weight less than 30g

D1015 Freezing Points of High Purity Hydrocarbons

- KD1015-FT** Freezing Point Tube, Glass, with Hi-Vac Stopcock

D1016 Purity of Hydrocarbons from Freezing Points

- KD1015-AS** Apparatus for Obtaining Sample, consisting of Dewar Flask, 50mL Condensing Tube, 3-way Stopcock, and Connecting Tubes 10mm OD with S/J 18/7 Ball and Socket Joints
- KD1015-NG** Distilling Apparatus for Gaseous Substances, consisting of two Dewar Flasks, Distilling Tube, and Receiver
- KD1015-NL** Distilling Apparatus for Normally Liquid Substances, consisting of Dewar Flask, Receiver, and 200mL Flask with Cap



D1018 Hydrogen in Petroleum Fractions

- KD1018-A** Absorber Only, Turner Type
- KD1018-B** Lamp Burner, S/T 14/20 Joints, Concentric Tubes
- KD1018-CH** Hydrogen Determination Chimney
- KD1018-D-1** Erlenmeyer Flask, 14/10 S/T Outer Joint, 25mL
- KD1018-D-2** Standard Burner, 14/10 S/T Inner Joints
- KD1018-D-3** Chimney for Lamp Hydrogen Apparatus
- KD1018-E** Absorption Bulbs
- KD1018-F** Drierite U-Tube

D1065 Determination of Unsaponifiable Matter In Gum and Wood Rosin

- KD1065** Extraction Apparatus, Ether, S/T 24/40, 400mm Condenser, 250mL Flask

D1072 Total Sulfur in Fuel Gases

- KD1072-B** Burner, S/T 14/10 Joint, Gas
- KD1266-C** Chimney, S/T 14/10 and S/T 24/40 Joints
- KD1266-A** Absorber, S/T 24/40 Joints, Parallel Chambers, AU Shape
- KD1266-ST** Spray Trap, S/T 24/40 Joint, 65mm OD

D1091 Phosphorus Lubricating Oils s in And Additives

- KD1091** Flask, Kjeldahl, Digestion, 300mL, with Ground Glass Stopper

D1093 Centrifuge Tube, 100mL

- K00D96-8** Centrifuge Tube, Conical, A8-Inch (203mm), 100mL

D1120 Determination of Equilibrium Boiling Point of Engine Antifreezes Miscible With Water

- KD1120** Distillation Apparatus, 100mL Flask, 200mm Condenser, S/T 19/38

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D1168 Testing Hydrocarbon Waxes for Electrical Insulation

KD1168 Dilatometer, 0-2mL in 0.02mL divisions, S/T 14/20 Joint, 2mm stopcock

D1173 Test For Foaming Properties of Surface-Active Agents

KD1173 Pour Foam Test Apparatus, Ross-Miles, 200mL Pipette, Receiver graduated at 50mL and 250mL, Teflon Stopcocks, 2mm and 6mm Bore, jacketed

D1217 Density and Relative Density of Liquids By Bingham Pycnometer

KD1217-P Pycnometer, Bingham type, Stoppered, 25mL 1.0 - 1.1mm neck

KD1217-PC Pycnometer Cleaning Apparatus, Hot Chromic Acid, consisting of 3-way Stopcock with Joint Inside Chamber

D1266 Sulfur in Petroleum Products (Lamp)

KD1266-A Absorber, S/T 24/40 Joints, Parallel Chambers, AU shape

KD1266-C Chimney, S/T 14/10 and S/T 24/40 Joints

KD1266-ST Spray Trap, S/T 24/40 Joint, 65mm OD

KD1266-SF Standard Flask, 25mL, S/T 14/10 Joint, with Hooks

KD1266-FA Flask for Aromatic Samples with Side Arm

KD1266-SB Standard Burner, S/T 14/10 Joints

KD1266-BA Burner for Aromatic Samples

D1347 Standard Method of Testing Methylcellulose

KD914 Apparatus for Testing Ethylcellulose

D1394 Jones-Blair Reductor

KD1394 Column, Jones-Blair Reductor, 19mm ID x 450mm Long, 4mm stopcock

D1480 Density and Relative Density of Viscous Materials by Bingham Pycnometer

KD1480 Pycnometer, Bingham Type, Stoppered, 2mm ID neck, 10mL

D1481 Density and Relative Density of Viscous Materials by Lipkin Bicapillary Pycnometer

KD1481 Pycnometer, Side-Arm Type, Weight less than 35 grams, 10mL

D1505 Density Gradient Determination

KD1505-C Density Gradient Column, Jacketed, 38mm ID x 44" long

KD1505-F Density Float (specify exact density and color identification)

D1541 Iodine Flasks

K00D29-125 Iodine Flask, 125mL, S/T 24/40 Mercury Seal w/Hollow Stopper

K00D29-250 Iodine Flask, 250mL, S/T 24/40 Mercury Seal w/Hollow Stopper

K00D29-300 Iodine Flask, 300mL, S/T 24/40 Mercury Seal w/Hollow Stopper

K00D29-500 Iodine Flask, 500mL, S/T 24/40 Mercury Seal w/Hollow Stopper

K00D29-1000 Iodine Flask, 1000mL, S/T 24/40 Mercury Seal w/Hollow Stopper

D1607 Sampling Nitrogen Dioxide in Small Concentrations

KD1607 Gas Bubbler Apparatus, S/T 29/42, S/J 18/7, Coarse Pencil Frit

D1638 Specific Gravity of Pigments, Drying Oils, Varnishes, Resins, etc.

K0C135-10 Pycnometer, 10mL, with Thermometer and Cap

K0C135-25 Pycnometer, 25mL, with Thermometer and Cap

K0C135-50 Pycnometer, 50mL, with Thermometer and Cap

K0C135-100 Pycnometer, 100mL, with Thermometer and Cap

D1839 Amyl Nitrate in Diesel Fuels

KD1839-F Flask, Distilling, 300mL, S/T 24/40 Joint

KD1839-DC Distillate Collector, S/T 24/40 Joints

KD1839-C Condenser, Allihn, 300mm, S/T 24/40 Joint

KD1839-VF Volumetric Flask, 100mL, Stoppered

KD1839-FF Funnel for Volumetric Flask

D1949 Separation of Tetraethyllead and Tetramethyllead in Gasoline

KD1949-F Flask, 200mL, S/T 24/40 Joint

KD1949-DC Distilling Column, 12mm IDx300, Vacuum Jacketed (w/o Beads)

KD1949-C Condenser, Liebig type, S/T 10/30 Top Joint, 100mm

D1963 Specific Gravity of Pigments, Drying Oils, Varnishes, Resins, etc.

K0C135-10 Pycnometer, 10mL, with Thermometer and Cap

K0C135-25 Pycnometer, 25mL, with Thermometer and Cap

K0C135-50 Pycnometer, 50mL, with Thermometer and Cap

K0C135-100 Pycnometer, 100mL, with Thermometer and Cap

D1966 Determination of Water and Sediment By Centrifuge Method

KD1966 Centrifuge Tube, Pear-Shape, 100mL with Lower Stem Graduated to 1.5mL in 0.1mL divisions

Glass Apparatus for ASTM Test Methods

D2001 Depentanization of Gasoline and Naphthas

- KD2001-A** Distillation Column, Jacketed, 13mm ID
- KD2001-B** Reflux Condenser Head for Distillation Column
- KD2001-C** Trap for Light End Depentanization
- KD2001-D** Receiver, Graduated, 12.5mL, S/T 19/38 Male Joint
- KD2001-E** Dewar Flask, for Immersion of Receiver
- KD2001-F** Flask, Distilling, 100mL, R.B., S/T 24/40 Joint

D2002 Isolation of Representative Saturates Fractions from Low-Olefinic Petroleum Naphthas

- KD2002-C-1** Alternate Analytical Absorption Column, w/top adapter
- KD2002-C** Absorption Column, Analytical, Water Jacketed
- KD2002-ER** Eluant Reservoir, 250mL, S/J 28/15 Joints with Stopper
- KD2002-R** Receiver, 10mL with TFE Stopcock and S/T 14/35 Joint

D2003 Isolation of Representative Saturates Fraction from High-Olefinic Petroleum Naphthas

- KD2003-AC** Absorption Column, Water Jacketed, S/J 28/15 and S/T 14/35 Joints
- KD2003-R** Receiver, Graduated, 10mL, S/T 14/35 Joint, TFE stopcock

D2007 Characteristic Groups in Rubber Extender and Processing Oils and other Petroleum-Derived Oils by the Clay-Gel Absorption Chromatographic Method

- KD2007-C** Clay-Gel Percolating Column (2 required), S/T 24/40, Fritted Disc
- KD2007-F** Distillation Flask, 3-neck, 500mL, S/T 24/40 Joint, for extraction
- KD2007-H** Distillation Head with Vigreux Column, S/T 24/40, TFE stopcock
- KD2007-CT** Connecting Tube from Flask to Column, S/T 24/40 (If ordered with Flask, Head, and Column, Tube can be supplied custom fitted. Otherwise user must heat glass tube to soften and align and conform to fit properly, or install a flexible connection device such as Teflon bellows or slip-fit Teflon tubing sleeve).
- KD2007-RC** Reflux Condenser, S/T 24/40, Friedrichs
- KD2007-B** Beaker, Anticreep, 150mL
- KD2007-APC** Azobenzene Percolation Column, 12x600mm, 125mL Reservoir
- KD2007-MV** Teflon Metering Stopcock for Azobenzene Percolation Column

D2036 Determination of Cyanides in Water

- KD2036** Complete Distillation Apparatus, consisting of 1000mL 2-neck Flask, Cold Finger Condenser, Absorber Trap, Inlet Tube

D2111 Determination of Specific Gravity of Liquid Chemicals, Halogenated Organic Solvents Ethylene Glycols and Propylene Glycols

- KD891-25** Specific Gravity Bottle for Volatile Liquids, 25mL, Jacketed
- KD891-50** Specific Gravity Bottle for Volatile Liquids, 50mL, Jacketed

D2162 Basic Calibration of Master Viscometers And Viscosity Oil Standards

- KD2162-C1** Cannon Master Viscometer, Approximately 0.001-0.003cSt/s
- KD2162-C3** Cannon Master Viscometer, Approximately 0.003-0.009cSt/s
- KD2162-U1** Ubbelohde Master Viscometer, Approximately 0.001-0.003cSt/s
- KD2162-U3** Ubbelohde Master Viscometer, Approximately 0.003-0.009cSt/s

D2184 Determination of Isotopic Concentration of Heavy Water

- KD2184-P** Pycnometer, 25mL, S/T 7/15 Stopper
- KD2184-MS2** Matched Set of two Pycnometers

D2352 Determination of Carbon Dioxide and Sulfur Dioxide in Carbonates

- KD215** Alkalimeter, Knorr, 250mL Flask, S/T 24/40 and S/T 16

D2363 Testing of Hydroxypropyl Methylcellulose

- KD2363** Complete apparatus for Steam Distillation including Steam Boiler Tube with Inlet Adapter, 25mL Boiling Flask with Side Neck, Vigreux Column, 110mm long Liebig Type Condenser, and Vertical Adapter for delivery (S/T 14/20 Joints) (boiler has S/T 24/40 joints)

D2385 Hydrogen Sulfide and Mercaptan Sulfur In Natural Gas (Cadmium Sulfate Iodometric Titration Method)

- KD2385-GWB** Gas Washing Bottle, 70x280mm, Coarse Fritted Disc, S/T 24/40
- KD2385-ST** Spray Trap, S/T 24/40 Joint, 65mm OD Bulb

D2420 Hydrogen Sulfide in LP Gases by Lead Acetate Method

- KD2420** Apparatus including Cylinder, Stoppers, Watch Glass and Glass Rod

D2533 Vapor-Liquid Ratio of Spark-Ignition Engine Fuels

- KD2533** Buret, Vapor-Liquid Ratio, Graduated 0 - 35mL

D2549 Separation of Representative Aromatics and Nonaromatics Fractions of High-Boiling Oils by Elution Chromatography

- KD2549-C2** Chromatographic Column, 10x760mm, 100mL bulb, for 2 gram
- KD2549-C10** Chromatographic Column, 15x1150mm, 200mL bulb, for 10 gram

D2569 Distillation of Pitch

- KD2569-F** Flask, Distillation, 300mLx131mm tall w/side arm 10x220mm
- KD2569-F** Condenser, Air, 13x360mm

Glass Apparatus for ASTM Test Methods

D2619 Hydrolytic Stability of Hydraulic Fluids (Beverage Bottle Method)

K00D96-8 Centrifuge Tube, Conical, A8-Inch (203mm), 100mL

D2717 Thermal Conductivity of Liquids

KD2717 Thermal Conductivity Cell, Platinum Resistance Thermometer

D2748 Determination of Pyridine Bases in Acids

KD2748 Distillation Apparatus Consisting of 1000mL Boiling Flask, Bulb Trap Adapter, Connection Adapter, 600mm Liebig Type Condenser, and Lower Drip Adapter, S/T 24/40 Joints

D2780 Solubility of Fixed Gases in Liquids

KD2780-PS Ambient Pressure Saturator, Glass, 1000mL, S/T 27 Joint, PTFE Stopcock w/O-Rings, Upper Head for Gas Inlet, Outlet and Dispersion Element, and Heating Mantel and Thermocouple wire x 6 ft long

KD2780-ES Gas Extraction System consisting of KD2780-ES1 through KD2780-ES7

KD2780-ES1 Reflux Condenser, Liebig, S/T 24/40, 300mm

KD2780-ES2 Gas Extraction Chamber, 60 x 280mm, S/J 12/2 Joints

KD2780-ES3 Boiler Flask, 500mL, Round Bottom, S/J 35/25 Socket Joint, with Adapter, 35/25 x 12/2 S/J Joint

KD2780-ES4 Gas Buret, Water Jacketed, 100mL, with 3-Way, TEE Bore Stopcock and S/J 12/2 Joint

KD2780-ES5 Leveling Bulb, 500mL

KD2780-ES6 Connecting Manifold with 3 - TFE 120 Degree Stopcocks

KD2780-ES7 Manometer, Open End, 1-Meter, S/J 12/2 Connection

D2879 Vapor Pressure-Temperature Relationship and Initial Decomposition Temperature of Liquids by Isotenoscope

KD2879 Isotenoscope Pressure Manometer, 8mm Od x 500mm w/bulb

D2886 Vacuum Trap

KD2886 Vacuum Trap, 22x125mm, Inlet & Outlet Arms 10mm OD

D2892 Distillation of Crude Petroleum (15- Theoretical Plate Column)

Quotations submitted on request. Specify Type, Scale, and Sizes of Components Required.

D2910 Extraction Apparatus

KD2910 Complete Extraction Apparatus consisting of 3000 mL Solvent Flask, Extractor Body with Extraction Chamber, Siphon Tube, Removable Filter and Top Lid, and Allihn Condenser 250mm. Joints are S/T 45/50

D2912 Oxidant Content of Atmosphere

KD2912 Impinger, Midget, S/T 24/40, 25mm Body, 5mm Inlet, 1mm Nozzle, Body Graduated 0-25mL in 5mL Divisions

D2913 Mercaptan Content of Atmosphere

KD2913 Impinger, Midget, S/T 24/40, 25mm Body Graduated to 25mL in 5mL Divisions, 5mm ID inlet, Coarse Fritted Pencil at Tip

D2914 Oxidant Content of Atmosphere

KD2912 Impinger, Midget, S/T 24/40, 25mm Body, 5mm Inlet, 1mm Nozzle, Body Graduated 0-25mL in 5mL Divisions

D2972 Determination of Arsenic in Water

KD2972 Arsenic Determination Apparatus consisting of 125mL Erlenmeyer Flask, Scrubber Tube, and Absorber Tube, S/T 24/40 and S/J 12/2

D3120 Trace Quantities of Sulfur in Light Liquid Petroleum Hydrocarbons by Oxidative Microcoulometry

KD3120 Pyrolysis Tube, Quartz, S/J 18/9 Ball exit, 6mm Inlets, Septum

D3234 Abrasion Resistance of Petroleum Wax Coatings

KD3234-T Glass Tube, 1" ID x 12" Long, with Support Device for #12 Sieve

KD3234-S Screen Sieve, Size #12, cut 1" Diameter

KD3234-F Separatory Funnel, 500mL, 4mm TFE Stopcock, Stem Cut Short

D3242 Acidity in Aviation Turbine Fuel

KD3242 Titration Flask, 500mL, Erlenmeyer Shape, with Inlet Tube

D3246 Sulfur in Petroleum Gas By Oxidative Microcoulometry

KD3120 Pyrolysis Tube, Quartz, S/J 18/9 Ball exit, 6mm Inlets, Septum

D3431 Trace Nitrogen in Liquid Petroleum Hydrocarbons (Microcoulometric Method)

KD3120 Pyrolysis Tube, Quartz, S/J 18/9 Ball exit, 6mm Inlets, Septum

D3505 Density of Liquid Hydrocarbon Materials

KOD941 Pycnometer, Side Arm Type, 4.5 ±0.5mL, Weight less than 30g

D3608 Sampling Low Concentrations of Nitrogen Dioxide

KD1607 Gas Bubbler Apparatus, S/T 29/42, S/J 18/7, Coarse Pencil Fit

D3712 Analysis of Oil-Soluble Petroleum Sulfonates by Liquid Chromatography

KD3712-C Chromatographic Column, 22 x 300mm w/250mL Reservoir, 28/15

KD3712-P Pycnometer for Determining Specific Gravity, 50mL ±1.0mL



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Glass Apparatus for ASTM Test Methods

D3825 Dynamic Surface Tension by the Fast-Bubble Technique

KD3825 Glass Bubbler Unit, Jacketed, without Pressure Transducer

D3831 Manganese in Gasoline by Atomic Absorption Spectrometry

KD3831 Automatic Pipette, 9.0mL, with Auto-zero and TFE Stopcock

D3867 Test for Nitrite-Nitrate in Water

KD3867 Cadmium Reduction Column, 5x200mm, 85mL Reservoir

D3904 Oil from Oil Shale (Resource Evaluation by the USBM Fischer Assay Procedure)

KD3904-R Receiver, 100mL Centrifuge Tube, Pear Shape

KD3904-A Adapter, S/T 24/40, to Receive Product from Retort

KD3904-C Condenser, Allihn, 300mm, S/T 24/40

D3907 Testing Fluid Cracking Catalysts by Microactivity Test

KD3907-R Glass Reactor body, 18mmx376mm, S/T 28/15 and 12/5 O-ring Joints

KD3907-PR Product Receiver, Liquid, S/T 12/5 O-ring Joints

D3908 Hydrogen Chemisorption on Supported Platinum on Alumina Catalysts by Volumetric Vacuum Method

KD3908 Sample Cell, S/T 10/30 Joints, 2mm Vacuum Stopcocks

D3945 Shear Stability of Polymer-Containing Fluids Using a Diesel Injector Nozzle

KD3945-CV Cooling Vessel, Jacketed, 25mm IDx180mm long, TFE Stopcock

KD3945-FR Fluid Reservoir, 250mL, w/Distributor Plate and 3-way Stopcock

D4006 Water in Crude Oil by Distillation

KD4006-A Distillation Trap, 5mL in 0.05

KD4006-B Drying tube for Distillation Apparatus

KD4006-C Condenser, 400mm, Liebig, S/T 24/40

KD4006-F Flask, 1000mL, S/T 24/40, Round Bottom

D4180 Vibratory Packing Density of Formed Catalyst Carriers

KD4180 Feed Funnel, 100mm x 20mm ID

D4484 Inorganic Particles in Marine Residual Fuel Oils by Selective Centrifugal Separation

KD2709 Centrifuge Tube, Conical, 100mL, Tip Graduated to .05mL in .01 Divisions

D4486 Kinematic Viscosity of Volatile and Reactive Liquids

KD4486 Viscometer for Vulnerable Liquids (specify approximate constant)

D4512 Vibrated Apparent Packing Density of Fine Catalyst Particles and Powder

KD4180 Feed Funnel, 100mm x 20mm ID

D4629 Organically Bound Trace Nitrogen in Liquid Petroleum Hydrocarbons by Oxidative Combustion and Chemiluminescence Detection

KD4629 Pyrolysis Tube, Quartz, S/J 18/9 Ball outlet, 6mm Inlets, Septum

D4814 Automotive Spark-Ignition Engine Fuel

KD2533 Buret, Vapor-Liquid Ratio, Graduated, 0-35mL

D4871 Guide for Universal Oxidation/Thermal Stability Test Apparatus

KD4871-TC Test Cell, 38 x 300mm, S/T 34/45 Joint

KD4871-C Condenser, Allihn, 330mm, S/T 34/45 Joint, Top 9mm ID

KD4871-G11 Gas Inlet Tube, 8x850mm with Capillary Tip (no Support Ring)

KD4871-G11A Alternate Gas Inlet Tube, 8x850mm with Capillary Tip but w/Support Ring

KD4871-G12 Gas Inlet Tube, 8x455mm, Capillary Tip, Top Bent 90 Degrees

KD4871-BH Basic Head, S/T 34/45 Joint, Septum Port, Screw Cap Joint

KD4871-1H Intermediate Head, S/T 34/45, 170mm long, Septum Port

KD4871-SH Sampling Head, S/T 34/45 x 175mm long, Septum Port

KD4871-SR Support Ring, 9.5mm IDx12.7mm ODx7mm long with 4 Hooks

KD4871-SP Spacer Ring, 9.5 mm ID x 12.7mm OD x 7mm Long