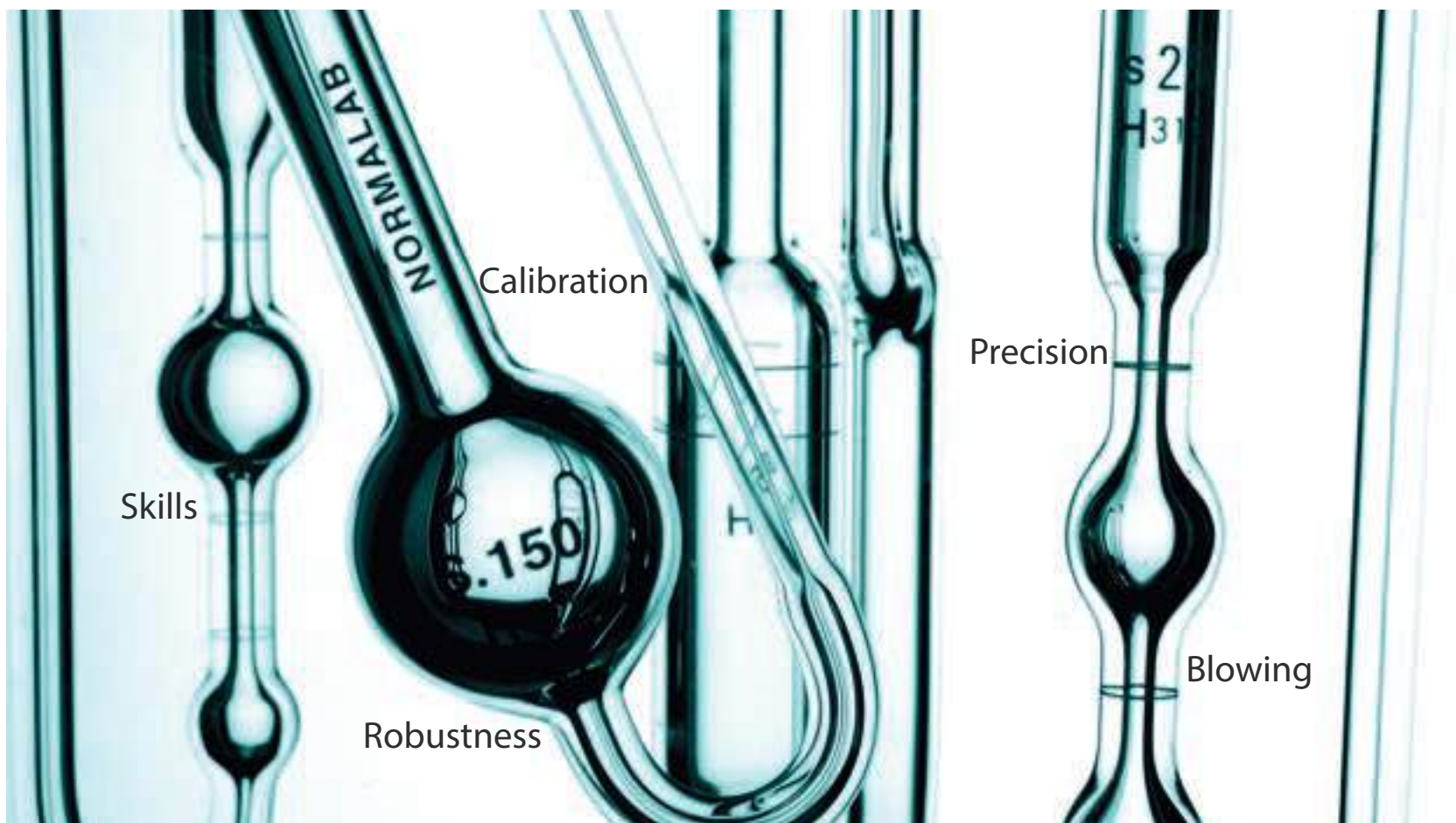


SCIENTIFIC GLASSWARE

CATALOGUE



EDITORIAL



Thanks to **NORMALAB** expertise for over 60 years in manufacturing, testing equipments and in petroleum glassware, we offer to our clients quality services in order to complete their laboratory project. The strength of our workshop is renowned in the laboratories, that's why it is important to present our expertise and our customized realizations.

NORMALAB is taking care of its experience and your needs for laboratory analysis. The 5th generation of automatic analysers uses new technologies, as **NORMALAB** also implements some of these ideas to extend its range of instruments.

Our R&D team is working on extending new features and creating new products according to standard requirements. In order to improve our instruments, investments are planned for research and development during the upcoming years.

Today, **NORMALAB** reorganizes its production process to improve the productivity. Each product is controlled and tested to assure the quality and the reliability. This optimization appears also in our world distribution network through this new management. Marketing supports are added to expand business in new markets. To respond to your needs, our team is dedicated to better support your projects and be present in the local exhibitions.

Our goal is to stay competitive in the market with a strengthened service. Our technical team is always available for your maintenance management, advices and complementary information.

Discover our compagny through video :

TABLE OF CONTENTS PER TYPE OF ANALYSES

5 VOLATILITY

ASTM D 20 - D 402
ASTM D 86
ASTM D 95
ASTM D 322
ASTM D 1837
ASTM D 4006
ASTM E 123
IP 188

8 COLD FLOW PROPERTIES

ASTM D 97
ASTM D 1177
ASTM D 2386
IP 309

CLEANLINESS

9 OXIDATION

ASTM D 381
ASTM D 525
ASTM D 943
ASTM D 2272

10 FUEL CARACTERISTICS

ASTM D 611
ASTM D 1266
ASTM D 1319
ASTM D 2784
IP 227

11 COLOR

ASTM D 156
ASTM D 1500

12 CARBON & SEDIMENTS

ASTM D 91
ASTM D 473
ASTM D 524
ASTM D 2273
ASTM D 4530

14 LUBRIBANTS

ASTM D 566
ASTM D 665
ASTM D 892
ASTM D 1401
ASTM D 3427

16 BITUMEN, WAXES & GREASES

ASTM D 36
ASTM D 70
ASTM D 87
ASTM D 721
ASTM D 941
ASTM D 1217
ASTM D 2872
IP 143

19 VISCOSITY

ASTM D 88
ASTM D 1665
IP 70
ASTM D 445
Viscosimeters

27 GLASSWARE SETS

ORSAT Device
SOXHLET Extractor
KUMAGAWA Extractor

SEE INDEX ON PAGE 29 FOR COMPLETE LIST OF AVAILABLE STANDARDS

GLASS WORKSHOP

NORMALAB France SAS specializes in scientific glass blowing since the company was founded in 1963. Thanks to this knowledge over more than 50 years and to a team of blowers who are used to working with various techniques, the **NORMALAB** workshop is the French leader in scientific glassblowing specialized in petroleum glassware.

Activities and know-how are vast. Our glassblowers share their time between:

- Standard production
- OEM manufacturing (outsourcing)
- Custom design
- Repairing

Specialized in petroleum glassware, we also offer a wide range of glassware. Thanks to the flexibility of our workshop, our team will adapt to your most specific needs. We are able to produce technical glassware, industrial glassware, laboratory glassware as well as customized pieces ...



OUR TAILOR-MADE KNOW-HOW

Our blowing workshop is equipped with all the necessary tools for the different techniques used (lathe work for large diameters and torch blowing for complex parts). Our glassblowers are qualified technicians and trained on all the techniques of working with hot or cold glass (lapping, polishing, engraving ...)

Our design office studies any type of project, from prototyping to production in small and medium series, whatever your business sector. We present you with scale plans according to the standards in order to realize your products. All the plans are kept in order to reproduce the identical parts upon request of the client.

For OEM service, we manufacture the products to your image. **NORMALAB** offers tailored solutions to each type of customer, from simple customization to complete product design and certification.

Our sales department is at your disposal to study your projects and your needs.



CALIBRATION

In addition, to offer a full service to its customers, **NORMALAB** offers the verification and calibration of various glass items. Calibration is done in our laboratory to bring you a certificate of accuracy.

To guarantee the quality of the processes, the company is ISO 9001 certified since 1998. Certificates issued guarantee compliance with international standards such as ASTM, IP, EN, ISO ...

NORMALAB's reputation for distillation flasks and viscometric tubes is well-known in analytical laboratories. Their precision and resistance make them a world reference.

Quality, robustness and precision of work is the daily goal of this historic workshop.

OUR REPAIR SERVICE

NORMALAB allows you to recycle inoperable glassware from your lab by repairing it. We will study your request and check possibilities.

Chipped or cracked glassware pieces can often be repaired. This service allows you to recycle used parts and save money. Do not hesitate to contact your sales representative.



OUR PACKAGING CHOICES

In order to guarantee the proper delivery of our laboratory glassware, **NORMALAB** has put in place packaging precautions according to the products.

Our products are mainly wrapped in cushion paper to prevent shocks. Some also have tubular nets for safer packaging. Then they are packed in a carton according to the orders.

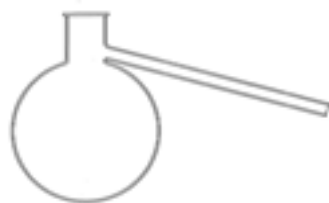
For the most fragile ones, we use cardboard with pre-cut foams to hold the pieces in place.

In addition, we are likely to use recycled supplies (especially cartons and rigging) for our expeditions to act on sustainable development.

VOLATILITY

ASTM D 402 - D 20 - AFNORT66003 - IP 27 - NF EN 13358

Standard Test Method for Distillation of Cutback Asphalt



19378

| REF. | DESCRIPTION |
|-------|---------------------------------------|
| 19378 | Distillation flask (500 mL) |
| 12613 | Graduated cylinder with neck (100 mL) |



24019

ASTM D 86 - D 1078 - E 133 - IP 123 - IP 191 - DIN 51751 - NF EN ISO 3405

Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure

| REF. | DESCRIPTION |
|-----------------------------|---|
| For Normalab NDI 450 | |
| 19420 | Distillation flask 100 mL (ASTM D86 - ASTM E133) |
| 24019 | Distillation flask 125 mL (minimum order of 5) |
| 19422 | Distillation flask 200 mL (ASTM D850, D1078, D86 groups 1&2 and IP 195) |
| 40052 | Distillation flask 125 mL black bottom (ASTM D86) |
| 40043 | Distillation flask 200 mL black bottom (ASTM D1078) |
| 12609EC | Graduated cylinder 5 mL Simax |
| 26111 | Cylinder 100 mL |
| 24500 | Glass foot graduated receiver engraved 100 mL (all methods) |
| 60516 | Glass foot graduated receiver 100 mL with special treatment to avoid condensation |
| 19426 | Cylinder 200 mL |



26111

19425

| For Normalab NDI Classic and NDI Basic | |
|---|---|
| 24019 | Distillation flask 125 mL (minimum order of 5) |
| 19422 | Distillation flask 200 mL (ASTM D850, D1078, D86 groups 1&2 and IP 195) |
| 19425 | Graduated receiver 100 mL |
| 12609EC | Graduated cylinder 5 mL Simax |
| 26111 | Cylinder 100 mL |

ASTM D 86 - D 1078 - E 133 - IP 123 - IP 191 - DIN 51751 - NF EN ISO 3405

Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure



25030



20082



13142



12852

| REF. | DESCRIPTION |
|---------------------|---|
| For Optidist | |
| 25030 | Distillation flask 125 mL for "Optidist" (minimum order of 5) |
| 50021 | Distillation flask 125 mL for "Optidist" <i>without logo</i> (minimum order of 5) |
| 25032 | Distillation flask 200 mL for "Optidist" |
| 25031 | Graduated receiver 100 mL for "Optidist" |
| 50020 | Graduated receiver 100 mL for "Optidist" <i>without logo</i> |

| For ADU 4 | |
|------------------|--|
| 19429 | Distillation receiver with brass foot (100 mL) for auto version (brass base (12921), cylinder (12919), joint (30187N)) |
| 20082 | Distillation flask 125 mL with CN 19/26F and line (minimum order of 5) |

| Other options and application | |
|--------------------------------------|--|
| 23375 | Distillation flask 125 mL with shank & holed cork for probe (minimum order of 5) |
| 23376 | Distillation flask 200 mL with shank & holed cork for probe |
| 19423 | Distillation flask 250 mL |
| 23378 | Male/Female shank for condenser tube entry |
| 11174 | Receiver conical bottom foot 100 mL for manual version |
| 25641 | Graduated receiver (5 mL) Simax 0.4 mL |
| 12609 | Graduated cylinder (5 mL) Schott 0.9 mL |

ASTM D 95 - AFNORT60113 - IP 74 - ISO 3733

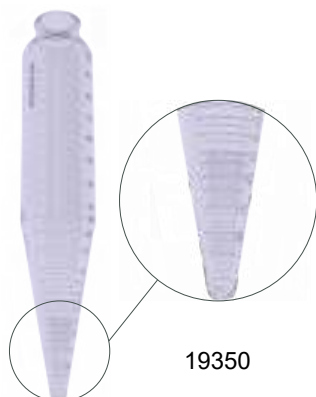
Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation

| REF. | DESCRIPTION |
|---------|---|
| 12852 | Round bottom flask 500 mL - CN 24/29 F |
| 13142 | Liebig condenser 400 mm - CN 24/29 |
| 19413 | Dean Stark 2 mL at 1/20e - CN 24/29 |
| 21455 | Dean Stark 5 mL at 1/10e - CN 24/29 |
| 19357 | Dean Stark graduated 10 mL at 1/10e - conical bottom - CN 24/29 |
| 21456 | Dean Stark graduated 25 mL at 1/5e - conical bottom - CN 24/29 |
| 12609EC | Graduated receiver 5 mL Simax |
| 12614EC | Graduated receiver 250 mL |

ASTM D 322 - IP 23 - DIN 51565

Standard Test Method for Gasoline Diluent in Used Gasoline Engine Oils by Distillation

| REF. | DESCRIPTION |
|-------|---|
| 12855 | Round bottom flask 1000 mL - CN 24/29 F |
| 13142 | Liebig condenser 400 mm - CN 24/29 |
| 17966 | Trap 5 mL - CN 24/29 - 5 mL at 1/10e |



ASTM D 1837 - D 2158 - AFNOR M41012 - IP 317

Standard Test Method for Volatility of Liquefied Petroleum (LP) Gases

| REF. | DESCRIPTION |
|-------|--------------------------------------|
| 19350 | Graduated weathering cylinder 100 mL |

ASTM D 4006

Standard Test Method for Water in Crude Oil by Distillation

| REF. | DESCRIPTION |
|-------|--|
| 21182 | Condenser CN 24/40M down et CN 14/23F up |
| 21183 | Drying tube (supplied with rubber stopper) |
| 21184 | Dean-Stark CN 24/40 of 5 mL at 1/20e |
| 21185 | Flask 1 Liter CN 24/40F round bottom |



ASTM E 123 - NF T60113

Standard Specification for Apparatus for Determination of Water by Distillation

| REF. | DESCRIPTION |
|-------|--|
| 19357 | Dean-Stark 10 mL cone-shaped - CN 24/29 - 10 mL at 1/10e |
| 19418 | Dean-Stark 5 mL - CN 24/40 - 5 mL at 1/10e |
| 19419 | Dean-Stark 10 mL - CN 24/40 - 10 mL at 1/10e |



IP 188 - AFNOR M07032

Standard Method for Separation of Tetraethyllead and Tetramethyllead in Gasoline

| REF. | DESCRIPTION |
|-------|--|
| 12622 | Plugged test tube 100 mL with stopper (Amber graduation) - CN 24/29F |
| 19338 | Flask 200 mL CN 24/29F |
| 19339 | Distillation column with cap - CN 24/29M down - GL 14 up - CN 14/23M lat |
| 19340 | Condenser with CN 14/23F up |



COLD FLOW PROPERTIES

ASTM D 97 - D 2500 - AFNOR T60105 - IP 15 - ISO 3016

Standard Test Method for Pour Point of Petroleum Products



21147

| REF. | DESCRIPTION |
|-------|--|
| 19439 | Test tube - 1 line - for manual apparatus |
| 21146 | Test tube for Pour Point for automatic apparatus |
| 21147 | Test tube for Cloud and Pour Point for apparatus auto., Glass mirror |
| 21150 | Test tube for Cloud and Pour Point for apparatus auto., Platinum mirror |



19439

ASTM D 1177

Standard Test Method for Freezing Point of Aqueous Engine Coolants

| REF. | DESCRIPTION |
|-------|--|
| 23239 | Dewar freezing tube NON silver with 2-hole cork |



513462

ASTM D 2386 - NF EN ISO 3013 - IP 16 - DIN 51421

Standard Test Method for Freezing Point of Aviation Fuels

| REF. | DESCRIPTION |
|--------|---|
| 513462 | Jacketed sample tube |
| 513463 | Stopper for sample tube |
| 513465 | Manual stirrer (spiral) |
| 513466 | Dewar flask (double wall) NON silver |

IP 309 - ASTM D 6371 - NF EN 116 - AFNOR M07042

Determination of cold filter plugging point pour diesel and domestic heating fuels



17885

21916 17881 20881

| REF. | DESCRIPTION |
|-------|--|
| 17881 | Automatic pipette with female RIS without line |
| 17885 | CFPP test tube |
| 20882 | Manual filtration set |
| 20942 | RIS male tip for pipette CFPP auto |
| 21916 | CFPP automatic pipette for NORMALAB version II without RIS without line |
| 23231 | Pipette for manual apparatus without RIS with line |
| 20881 | Pipette for manual apparatus with RIS with line |

CLEANLINESS

OXIDATION



16138

ASTM D 381 - ISO 6246 - IP 131 - DIN 51784

Standard Test Method for Gum Content in Fuels by Jet Evaporation

| REF. | DESCRIPTION |
|-------|--|
| 16138 | Beaker for existent gums 100 mL |
| 19035 | Beaker without spout |
| 27113 | Graduated receiver (class A) 50 mL (pack of 2) |



513513

ASTM D 525 - NF EN ISO 7536 - M07013

Standard Test Method for Oxidation Stability of Gasoline (Induction Period Method)

| REF. | DESCRIPTION |
|--------|---|
| 21688 | Glass test container without cover |
| 513513 | Glass test container with cover |
| 513514 | Cover for container |



19347



19349



19348

ASTM D 943 - D 2274 - D 4310 - NF EN ISO 12205 - 4263 - DIN 51587

Standard Test Method for Oxidation Characteristics of Inhibited Mineral Oils

| REF. | DESCRIPTION |
|---------|---|
| 19347 | Test container |
| 19348 | Mushroom condenser with vertical barbed fitting |
| 19349 | Oxygen delivery tube (D943) |
| 19351 | Mushroom condenser with horizontal barbed fitting D 2274 |
| 21696 | Complete oxidation cell for ASTM D 943 and D 2893, with condenser with vertical barbed fitting * <i>spare parts possible at retail</i> |
| 21697 | Complete oxidation cell for ASTM D 2274 and 4310, with condenser with horizontal barbed fitting * <i>spare parts possible at retail</i> |
| 12442EC | Low graduated beaker with spout 1000 mL |

ASTM D 2272 - IP 229

Standard Test Method for Oxidation Stability of Steam Turbine Oils by Rotating Pressure Vessel



21338

| REF. | DESCRIPTION |
|-------|--|
| 21338 | Sample container, made of borosilicate glass |
| 21389 | Catalyst copper coil (ready to use) - individually packed with dry sac |

FUEL CARACTERISTICS

ASTM D 611 - AFNOR M07021 Method II

Standard Test Methods for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents

| REF. | DESCRIPTION |
|--------|---|
| 10142 | 2-stroke pipette 5 mL 2 lines with safety ball Class A |
| 10143 | 2-stroke pipette 10 mL 2 lines Class A |
| 12780 | Test tube with straight edge round bottom |
| 19322 | Jacket |
| 513113 | Manual stirring |
| 40546 | U-tube for NAE 440, 2 stations aniline point tester - Line at 20 mL |



10143

40546

ASTM D 1266 - AFNOR M07031 - IP 107

Standard Test Method for Sulfur in Petroleum Products (Lamp Method)

| REF. | DESCRIPTION |
|-------|--|
| 19330 | Absorber - CN 24/40F - Sintered disc P O |
| 19331 | Chimney - CN 14/10F - CN 24/40M |
| 19332 | Burner for non-aromatic samples - CN 14/10 |
| 19333 | Spray trap - CN 24/40F (100 mL) |
| 19334 | Flask (25 mL) for non-aromatic samples - CN 14/10F |
| 19335 | Burner for aromatic samples - CN 14/10 |
| 19336 | Flak (25 mL) for aromatic samples - CN 14/10F |



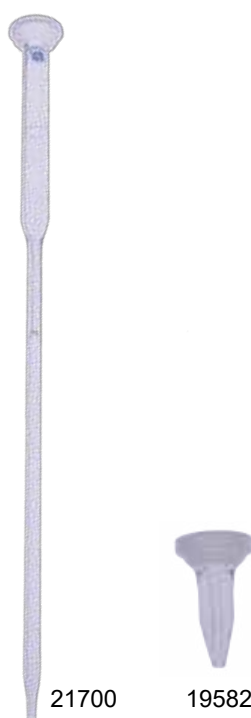
19332

19334

ASTM D 1319 - AFNOR M07024 - IP 156 - ISO 3837 - DIN 51791

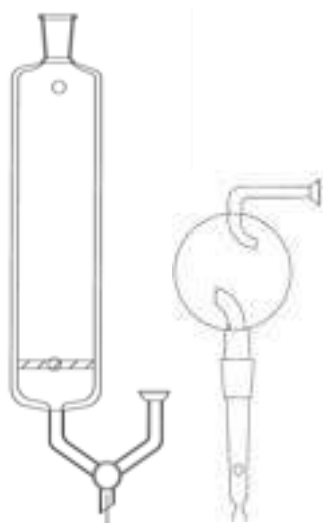
Standard Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption

| REF. | DESCRIPTION |
|-------|--|
| 19023 | Standard wall tubing (lower part) FIA (Pack of 10) |
| 19325 | FIA True Bore adsorption column - RIS 28/12F and RIS 12/2M |
| 19572 | Upper connection RIS 28/12M for gas supply |
| 19582 | Outlet for true bore column RIS 12/2F |
| 21700 | Standard adsorption column (upper part) FIA - RIS 28/12F |
| 21701 | Low parts for FIA standard column (Pack of 25) |



21700

19582



20983

20984

ASTM D 2784 - NF EN 24260 - ISO 4260

Standard Test Method for Sulfur in Liquefied Petroleum Gases (Oxy-Hydrogen Burner or Lamp)

| REF. | DESCRIPTION |
|-------|--|
| 20928 | Combustion chamber Quartz - CN 19/40F - RIS 18 M |
| 20983 | Absorber with fritted plate for Wickbold - CN 19/26F up - Faucet glass lane of 4 mm down |
| 20984 | Trap for Wickbold - RIS up 18/9F - CN 19/26M down |

IP 227

Determination of the corrosive tendencies towards silver of aviation turbine fuel, automotive spark-ignition engine oils or automotive gasoline



12007

| REF. | DESCRIPTION |
|-------|--|
| 12007 | Complete condenser kit (amber glass) |
| 12376 | Test tube round bottom CN 45/40F (amber glass) |
| 12377 | Cold-finger condenser with hook (amber glass) |
| 12008 | Cradle (amber glass) |
| 20523 | Complete condenser kit (clear glass) |
| 20524 | Test tube round bottom CN 45/40F (clear glass) |
| 20525 | Cold-finger condenser with hook (clear glass) |

COLOR

ASTM D 156

Standard Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)

| REF. | DESCRIPTION |
|---------|--|
| 941525 | Set of 2 tubes (1 ungraduated, 1 graduated) with connector and tap |
| 9415202 | Set of 2 tubes (1 ungraduated, 1 graduated) without connector |
| 941526 | Set of 2 tubes (1 ungraduated, 1 graduated) with connector for waxes |

ASTM D 1500 - ISO 2049 - IP 196 - DIN 51578

Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)

| REF. | DESCRIPTION |
|-------|-----------------------|
| 19353 | Color tube with spout |



19353

CARBON & SEDIMENTS

ASTM D 91 - D 96 - D 893 - D 1796 - D 4007 - NF ISO 3731 - T60156 - IP 75 - DIN 51793

Standard Test Method for Precipitation Number of Lubricating Oils



| REF. | DESCRIPTION |
|-------|---|
| 19319 | 8" cone-shaped tube (100 mL) |
| 19435 | 8" cone-shaped tube (100 mL) with a capillary tip capable of measuring 0.01-mL and readable by estimation to 0.005 mL |
| 19321 | 6" cone-shaped tube (100 mL) |
| 19437 | Pear shaped tube (100 mL) with 3 mL graduated tip |
| 19438 | Pear shaped tube (100 mL) with 1.5 mL graduated tip |
| 21194 | Stopper for tubes ref 19435 |
| 21784 | Stopper for tubes ref 19319 (pack of 50) |

ASTM D 473 - ISO 3735 - IP 53 - DIN 51789

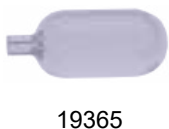
Standard Test Method for Sediment in Crude Oils and Fuel Oils by the Extraction Method



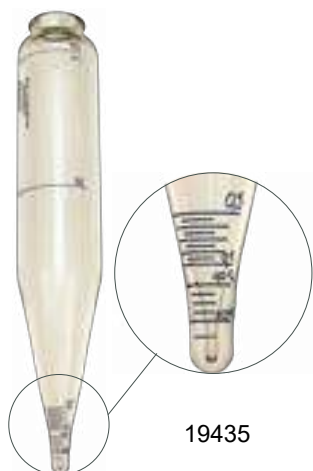
| REF. | DESCRIPTION |
|--------|-----------------------------|
| 10738 | Compleat set |
| 10739 | Water cup with glass hook |
| 10763 | Extraction thimble, alundun |
| 19012 | Extraction flask |
| 941282 | Condenser |
| 941244 | Basket |

ASTM D 524 - AFNOR T60117 - IP 14

Standard Test Method for Ramsbottom Carbon Residue of Petroleum Products



| REF. | DESCRIPTION |
|-------|----------------------------------|
| 19365 | Heat-resistant glass coking bulb |



ASTM D2273

Standard Test Method for Trace Sediment in Lubricating Oils

| REF. | DESCRIPTION |
|-------|---|
| 19435 | Bulb glass cone-shaped capillary 100 mL |

ASTM D 4530 - ISO 10370

Standard Test Method for Determination of Carbon Residue (Micro Method)

| REF. | DESCRIPTION |
|-------------------------------|--|
| For Normalab apparatus | |
| 41001 | Borosilicate glass sample vials small model 2 mL (pack of 150) |
| 41002 | Borosilicate glass sample vials big model 16 mL (pack of 45) |
| 41003 | Sample vial ash content Quartz small model 2 mL |
| 41004 | Sample vial ash content Quartz big model 16 mL |
| 41026 | Vial 4 mL - ISO 10370 (pack of 75) |
| 41046 | Vial 16 mL single use (pack of 144) |
| 41047 | Vial 2 mL single use (pack of 144) |



41002 41026 41001

LUBRICANTS

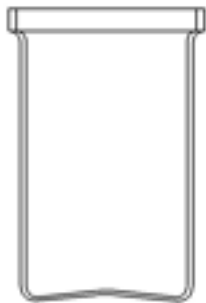


19381

ASTM D 566 - D2265 - AFNOR T60102

Standard Test Method for Dropping Point of Lubricating Grease

| REF. | DESCRIPTION |
|-------|--------------------------|
| 19381 | Dropping point test tube |



19382

ASTM D 665 - D 3603 - AFNOR T60151 - IP 135 - DIN 51585

Standard Test Method for Rust-Preventing Characteristics of Inhibited Mineral Oil in the Presence of Water

| REF. | DESCRIPTION |
|-------|---------------|
| 19382 | Beaker 400 mL |

ASTM D 892 - NF ISO 6247 - IP 146 - DIN 51566

Standard Test Method for Foaming Characteristics of Lubricating Oils



24795

19369

| REF. | DESCRIPTION |
|---------|---|
| 19369 | Foam test tube 1 Liter amber graduation |
| 20740 | Borosilicate glass tank 20 Liters with spout |
| 24795 | Diffuser stone, calibrated (with certificate, supplied with rod) |
| 24803 | Stainless steel diffuser stone (with certificate, supplied with rod) |
| 24805 | Stainless steel diffuser stone (with certificate, supplied without rod) |
| 19371 | Foam test tube 1 Liter amber graduation |
| 19366 | Drying gas column for foaming test |
| 27077 | Foam test tube amber graduation - CN 45/40, type "Petrotest" |
| 27518 | Foam test tube without foot T 60129 |
| 9416412 | Graduated cylinder 1000 mL with ring ballast for D 892 |
| 9411302 | Borosilicate glass vessel for foaming 30 L |



11470

ASTM D 1401 - AFNOR T60125 - ISO 6614

Standard Test Method for Water Separability of Petroleum Oils and Synthetic Fluids

| REF. | DESCRIPTION |
|-------|---|
| 11470 | Demulsification test tube 100 mL amber graduation |



12627

ASTM D 3427 - NF ISO 9120 - T60149

Standard Test Method for Air Release Properties of Hydrocarbon Based Oils

| REF. | DESCRIPTION |
|-------|--|
| 12627 | Complete sample glassware Impinger (with spherical joints, clamps and barbed fitting) |
| 12628 | Plunger numbered (amber) 5 mL |
| 12629 | Plunger numbered (amber) 10 mL |
| 19379 | Complete Impinger graduated receiver without RIS (head + body) |



12629

12628

BITUMENS, WAXES & GREASES

ASTM D 36 - NF EN 1427 - ISO 4625

Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)



17487

| REF. | DESCRIPTION |
|-------|--|
| 17487 | Graduated beaker ASTMD36 - Total volume 770 mL Volume under line 584 mL |
| 17490 | Graduated beaker ISO 1427 - Total volume 770 mL Volume under line 561 mL |

ASTM D 70 - NFEN ISO 3838 - IP 190

Standard Test Method for Density of Semi-Solid Asphalt Binder (Pycnometer Method)

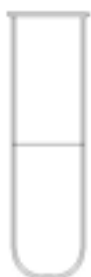


20847

| REF. | DESCRIPTION |
|-------|---|
| 20847 | Pycnometer A - 24/30 mL (Hubbard model) |
| 24624 | Pycnometer B - 24/30 mL (Bingham model) |
| 23229 | Pycnometer C - 24/30 mL (Warden model) |
| 23230 | Pycnometer D - 24/30 mL (Capillary-stopper) |

ASTM D 87 - D 402 - AFNOR T60

Standard Test Method for Melting Point of Petroleum Wax (Cooling Curve)



19361

| REF. | DESCRIPTION |
|-------|---------------------------|
| 19361 | Paraffin test tube (3 mL) |



517565

ASTM D 721 - D 3235 - AFNOR T60120 - IP 158 - DIN 515771-2

Standard Test Method for Oil Content of Petroleum Waxes

| REF. | DESCRIPTION |
|--------|---|
| 19367 | Complete filter assembly - CN 24/29 |
| 21001 | Complete filter assembly with certificate (calibrated and numbered) - RIS 35/20 |
| 517565 | Filter with filter rod |
| 517564 | Test container |
| 23240 | Weighing bottle 15 mL with ground cap |



19386

ASTM D 941 - D 1481 - IP 142 - DIN 51757

Standard Test Method for Density and Relative Density (Specific Gravity) of Viscous Materials by Lipkin Bicapillary Pycnometer

| REF. | DESCRIPTION |
|-------|-------------------|
| 19386 | Lipkin pycnometer |



19393

ASTM D 1217

Standard Test Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer

| REF. | DESCRIPTION |
|-------|------------------------------|
| 19393 | Bingham density bottle 25 mL |



23680

ASTM D 2872

Standard Test Method for Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin-Film Oven Test)

| REF. | DESCRIPTION |
|-------|--|
| 23680 | Standardized glass container RTFOT concave |
| 23681 | Standardized glass container RTFOT convex |

ASTM D 6560 - IP 143 - DIN 51595 - NF T60115

Determination of asphaltenes (heptane insolubles) in crude petroleum and petroleum products



23884

| REF. | DESCRIPTION |
|----------|--|
| 19364 | Condenser CN 34/35M |
| 21918 | Conical flask 500 mL CN 29/32F |
| 21919 | Reflux extractor CN 34/35F et CN 29/32M |
| 23883 | Conical flask 500 mL without stopper CN 24/29F |
| 23884 | Reflux extractor CN 34/35 F - CN 24/29M |
| 14694 | Glass evaporation capsule |
| 13226 | Glass stopper 24/29 |
| 12600 | Glass funnel (200 mL) |
| 12612 EC | Graduated cylinder 50 mL |
| 12613 EC | Graduated cylinder 100 mL |
| 23885 | Glass rod |

ASTM D 6560 - IP 143 - DIN 51595 - NF T60115

Determination of asphaltenes (heptane insolubles) in crude petroleum and petroleum products



24472

| REF. | DESCRIPTION |
|--------------------------------|--------------------------------------|
| For ASPHAN 02 apparatus | |
| 24472 | Complete instrument ASPHAN 02 |
| 21364 | Lower boiler 500 mL - Rolatex 41/25F |
| 21365 | Upper boiler 1000 mL with stopper |
| 21368 | Condenser of the collector with coil |
| 21369 | Solvent collecting flask 500 mL |
| 21366 | Double effect condenser |
| 21367 | Pressurizing condenser with notch |

VISCOSITY



11438

ASTM D 88 - D 224 - E 102

Standard Test Method for SAYBOLT Viscosity

| REF. | DESCRIPTION |
|-------|--------------------------------|
| 11175 | Graduated receiver 20-25-75 mL |
| 11438 | Saybolt flask 60 mL |

ASTM D 1665

Standard Test Method for ENGLER Viscosity

| REF. | DESCRIPTION |
|--------|---------------------------|
| 521155 | Engler flask 50 mL |
| 27253 | Engler flask 100 + 100 mL |
| 27254 | Engler flask 200 + 40 mL |

IP 70

Standard Test Method for REDWOOD Viscosity

| REF. | DESCRIPTION |
|--------|----------------------------|
| 521341 | Redwood flask 50 mL 1 line |

VISCOMETER TUBES

ASTM D 445 - ASTM D 446 - ASTM D 2171 - ASTM D 7279 - ISO 3104 - IP 71

INTRODUCTION

The following pages present the various types of viscometric tubes we have been manufacturing for years in our factories and calibration laboratory.

FABRICATION

NORMALAB's viscometric tubes are made out of low-expanding Duran 50 glass. The tubes are made with high accuracy capillaries (± 0.001 mm). Scores and figures are marked using an indelible process, which makes the viscometers tubes more solid. Each tube has its serial number and is supplied in an individual packaging. The standard capillary viscometers can be delivered with engraved constant on customer's request against additional cost.

CALIBRATION

2 options are available for most of the models:

a) *Without certificate*

b) *With calibration certificate*

NORMALAB viscometers are calibrated in our laboratory using reference viscometers calibrated by the French « Laboratoire National d'Essais » (National Testing Laboratory). Those viscometers are checked at regular intervals by means of viscosity oil standards. **NORMALAB** has been assessed and registered as meeting the requirements of ISO 9001 for laboratory and associated services of repair, calibration and verification of laboratories devices.



WARRANTY

Our certificates attest to the manufacture date of the viscometer. Our packaging is sealed with a tamper-proof seal to guarantee tubes for 10 years.

ACCESSOIRES

| REF. | DESCRIPTION |
|-------|---|
| 17433 | Black rubber stopper for visco tubes (pack of 12) |



OUR MEASURING AND CLEANING DEVICES



Manual viscosity bath
NVB CLASSIC - Ref 23207



Automatic viscometer tube washer
VTW CLASSIC - Ref 18450



Automatic chronometer
CHRONOTECH - Ref 41900

CANNON-FENSKE ROUTINE VISCOMETERS FOR TRANSPARENT LIQUIDS

A: without certificate

B: with calibration certificate



| Size | Approx. constant | Viscosity (cSt) | Reference A | Reference B |
|------|------------------|-----------------|-------------|-------------|
| 25 | 0.002 | 0.5 to 2 | 14046 | 14002 |
| 50 | 0.004 | 0.8 to 4 | 14047 | 14003 |
| 75 | 0.008 | 1.6 to 8 | 14048 | 14004 |
| 100 | 0.015 | 3 to 15 | 14049 | 14005 |
| 150 | 0.035 | 7 to 35 | 14050 | 14006 |
| 200 | 0.1 | 20 to 100 | 14051 | 14007 |
| 300 | 0.25 | 50 to 250 | 14052 | 14008 |
| 350 | 0.5 | 100 to 500 | 14053 | 14009 |
| 400 | 1.2 | 240 to 1200 | 14054 | 14010 |
| 450 | 2.5 | 500 to 2500 | 14055 | 14011 |
| 500 | 8 | 1600 to 8000 | 14056 | 14012 |
| 600 | 20 | 4000 to 20000 | 14057 | 14013 |
| 650 | 45 | 10000 to 40000 | 14058 | 14014 |
| 700 | 100 | 20000 to 80000 | 14059 | 14015 |

CANNON-FENSKE REVERSE FLOW VISCOMETERS FOR OPAQUE LIQUIDS

A: without certificate

B: with calibration certificate



| Size | Approx. constant | Viscosity (cSt) | Reference A | Reference B |
|------|------------------|-----------------|-------------|-------------|
| 25 | 0.002 | 0.4 to 2 | 12181 | 14016 |
| 50 | 0.004 | 0.8 to 4 | 12182 | 14017 |
| 75 | 0.008 | 1,6 to 8 | 12183 | 14018 |
| 100 | 0.015 | 3 to 15 | 12184 | 14019 |
| 150 | 0.035 | 7 to 35 | 12185 | 14020 |
| 200 | 0.1 | 20 to 100 | 12186 | 14021 |
| 300 | 0.25 | 50 to 200 | 12187 | 14022 |
| 350 | 0.5 | 100 to 500 | 12188 | 14023 |
| 400 | 1.2 | 240 to 1200 | 12189 | 14024 |
| 450 | 2.5 | 500 to 2500 | 12190 | 14025 |
| 500 | 8 | 1600 to 8000 | 12191 | 14026 |
| 600 | 20 | 4000 to 20000 | 12192 | 14027 |
| 650 | 45 | 10000 to 40000 | 12193 | 14028 |
| 700 | 100 | 20000 to 80000 | 12194 | 14029 |

CANNON-MANNING VACCUUM VISCOMETER

ASTM D 2171

A: without certificate

B: with calibration certificate



| Size | Approx. Cst Bulb B | Approx. Cst Bulb C | Viscosity (P) | Reference A | Reference B |
|------|-----------------------|-----------------------|---------------|----------------|----------------|
| 4 | 0,002 | 0,0006 | 0.036 to 0.8 | 18870 | 18892 |
| 5 | 0,006 | 0,002 | 0.12 to 2.4 | 18871 | 18893 |
| 6 | 0,02 | 0,006 | 0.36 to 8 | 18872 | 18894 |
| 7 | 0,06 | 0,02 | 1.2 to 24 | 18873 | 18895 |
| 8 | 0,2 | 0,06 | 3.6 to 80 | 18874 | 18896 |
| 9 | 0,6 | 0,2 | 12 to 240 | 18875 | 18897 |
| 10 | 2 | 0,6 | 36 to 800 | 18876 | 18898 |
| 11 | 6 | 2 | 120 to 2400 | 18877 | 18899 |
| 12 | 20 | 6 | 360 to 8000 | 18878 | 18900 |
| 13 | 60 | 20 | 1200 to 24000 | 18879 | 18901 |
| 14 | 200 | 60 | 3600 to 80000 | 18880 | 18902 |

CANNON-UBBELOHDE VISCOMETERS FOR **AVS** AND TRANSPARENT LIQUIDS

A: without certificate

B: with calibration certificate

| Size | Approx. constant | Reference A | Reference B |
|------|---------------------|----------------|----------------|
| 0C | 0.003 | 11179 | 15253 |
| 0A | 0.005 | 11180 | 15255 |
| 1 | 0.01 | 11181 | 15256 |
| 1C | 0.03 | 11182 | 15257 |
| 2 | 0.1 | 11183 | 15259 |
| 2C | 0.3 | 11184 | 15260 |
| 3 | 1 | 11185 | 15263 |
| 3C | 3 | 11186 | 15264 |
| 4 | 10 | 11187 | 15266 |

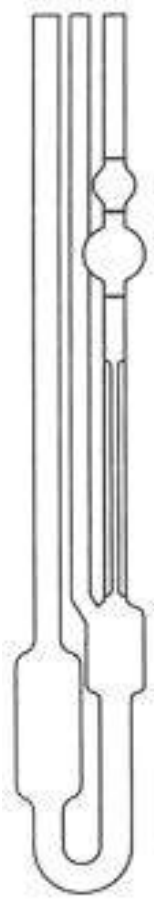
UBBELOHDE VISCOMETERS FOR TRANSPARENT LIQUIDS

A: without certificate

B: with calibration certificate



| Size | Approx. constant | Viscosity (cSt) | Reference A | Reference B |
|------|------------------|-----------------|-------------|-------------|
| 0 | 0.001 | 0.3 to 1 | 13975 | 14030 |
| 0C | 0.003 | 0.6 to 3 | 13976 | 14031 |
| 0B | 0.005 | 1 to 5 | 13977 | 14032 |
| 0A | 0.007/8 | 1.5 to 7 | 13978 | 14033 |
| 1 | 0.01 | 2 to 10 | 13979 | 14034 |
| 1C | 0.03 | 6 to 30 | 13980 | 14035 |
| 1B | 0.05 | 10 to 50 | 13981 | 14036 |
| 2 | 0.1 | 20 to 100 | 13982 | 14037 |
| 2C | 0.3 | 60 to 300 | 13983 | 14038 |
| 2B | 0.5 | 100 to 500 | 13984 | 14039 |
| 2A | 0.7/0.8 | 150 to 750 | 13985 | 14040 |
| 3 | 1 | 200 to 1000 | 13986 | 14041 |
| 3C | 3 | 600 to 3000 | 13987 | 14042 |
| 3B | 5 | 1000 to 5000 | 13988 | 14043 |
| 4 | 10 | 2000 to 10000 | 13989 | 14044 |
| 4C | 30 | 6000 to 30000 | 13990 | 14045 |
| 4B | 50 | 10000 to 50000 | 13991 | 13993 |
| 5 | 100 | 20000 to 100000 | 13992 | 13994 |



BS / IP SL VISCOMETERS FOR TRANSPARENT LIQUIDS

A: without certificate

B: with calibration certificate

| Size | Approx. constant | Viscosity (cSt) | Reference A | Reference B |
|------|------------------|-----------------|-------------|-------------|
| 1 | 0.01 | 3.5 to 10 | 19265 | 19283 |
| 1A | 0.03 | 6 to 30 | 19266 | 19284 |
| 2 | 0.1 | 20 to 100 | 19267 | 19285 |
| 2A | 0.3 | 60 to 300 | 19268 | 19286 |
| 3 | 1 | 200 to 1000 | 19269 | 19287 |
| 3A | 3 | 600 to 3000 | 19270 | 19288 |
| 4 | 10 | 2000 to 10000 | 19271 | 19289 |
| 4A | 30 | 6000 to 30000 | 19272 | 19290 |
| 5 | 100 | 20000 to 100000 | 19273 | 19291 |

BS / IP U RF VISCOMETERS FOR OPAQUE LIQUIDS

A: without certificate

B: with calibration certificate



| Size | Approx. constant | Viscosity (cSt) | Reference A | Reference B |
|------|------------------|-----------------|-------------|-------------|
| 1 | 0.003 | 0.6 to 3 | 18648 | 18670 |
| 2 | 0.01 | 2 to 10 | 18649 | 18671 |
| 3 | 0.03 | 6 to 30 | 18650 | 18672 |
| 4 | 0.10 | 20 to 100 | 18651 | 18673 |
| 5 | 0.3 | 60 to 300 | 18652 | 18674 |
| 6 | 1 | 200 to 1000 | 18653 | 18675 |
| 7 | 3 | 600 to 3000 | 18654 | 18676 |
| 8 | 10 | 2000 to 10000 | 18655 | 18677 |
| 9 | 30 | 6000 to 30000 | 18656 | 18678 |
| 10 | 100 | 20000 to 100000 | 18657 | 18679 |
| 11 | 300 | 60000 to 300000 | 18658 | 18680 |



SIL VISCOMETERS FOR TRANSPARENT LIQUIDS

A: without certificate

B: with calibration certificate

| Size | Approx. constant | Viscosity (cSt) | Reference A | Reference B |
|------|---------------------|-----------------|----------------|----------------|
| 0C | 0.003 | 0.6 to 3 | 19623 | 19631 |
| 1 | 0.01 | 2 to 10 | 19624 | 19632 |
| 1C | 0.03 | 6 to 30 | 19625 | 19497 |
| 2 | 0.1 | 20 to 100 | 19626 | 19498 |
| 2C | 0.3 | 60 to 300 | 19627 | 19499 |
| 3 | 1 | 200 to 1000 | 19628 | 19500 |
| 3C | 3 | 600 to 3000 | 19628 | 19501 |
| 4 | 10 | 2000 to 10000 | 19630 | 19502 |

BAUME VIGNERON VISCOMETERS FOR TRANSPARENT LIQUIDS

A: without certificate

B: with calibration certificate



| Viscosity (cSt) | Reference A | Reference B |
|-----------------|-------------|-------------|
| 0.63 | 14719 | 14740 |
| 1 | 14720 | 14741 |
| 1.6 | 14721 | 14742 |
| 2.5 | 14722 | 14743 |
| 4 | 14723 | 14744 |
| 6.3 | 14724 | 14745 |
| 10 | 14725 | 14746 |
| 16 | 14726 | 14747 |
| 25 | 14727 | 14748 |
| 40 | 14728 | 14749 |
| 63 | 14729 | 14750 |
| 100 | 14730 | 14751 |
| 160 | 14731 | 14752 |
| 250 | 14732 | 14753 |
| 400 | 14733 | 14754 |
| 630 | 14734 | 14755 |
| 1000 | 14735 | 14756 |
| 1600 | 14736 | 14757 |
| 2500 | 14737 | 14758 |
| 4000 | 14738 | 14759 |
| 6300 | 14739 | 14760 |



HOULLON VISCOMETERS FOR TRANSPARENT LIQUIDS

A: without certificate

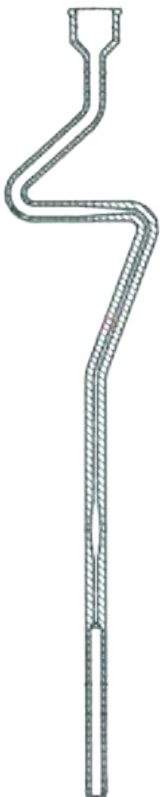
B: with calibration certificate

| Size | Approx. constant | Viscosity (cSt) | Reference A | Reference B |
|------|------------------|-----------------|-------------|-------------|
| 50 | 0.016 | 0.8 to 3.2 | 13923 | 13932 |
| 75 | 0.032 | 1.6 to 6.4 | 13924 | 13933 |
| 100 | 0.06 | 3 to 12 | 13925 | 13934 |
| 150 | 0.14 | 7 to 28 | 13926 | 13935 |
| 200 | 0.4 | 20 to 80 | 13927 | 13936 |
| 300 | 1 | 50 to 200 | 13928 | 13937 |
| 350 | 2 | 100 to 400 | 13929 | 13938 |
| 400 | 4.8 | 240 to 960 | 13930 | 13939 |
| 450 | 10 | 500 to 2000 | 13931 | 13940 |

HOULLON VISCOMETERS - FOR « Omnitek » FOR TRANSPARENT LIQUIDS

The below tubes do perfectly fit with Omnitek range of instruments

A: without certificate



| Nominal constant mm^2/s^2 | Measuring range mm^2/s^2 (cSt) | Reference A |
|--|---|-------------|
| 0.01 | 0.3 to 2.0 | 21280 |
| 0.02 | 0.6 to 4.0 | 21281 |
| 0.03 | 0.9 to 6.0 | 21282 |
| 0.05 | 1.5 to 10 | 21283 |
| 0.07 | 2.1 to 14 | 21284 |
| 0.10 | 3.0 to 20.00 | 21285 |
| 0.20 | 6.0 to 40.00 | 21286 |
| 0.30 | 9.0 to 60.00 | 21287 |
| 0.50 | 15 to 100 | 21288 |
| 0.70 | 21 to 140 | 21289 |
| 1.00 | 30 to 200 | 21290 |
| 2.00 | 60 to 400 | 21291 |
| 3.00 | 90 to 1000 | 21292 |
| 5.00 | 300 to 2000 | 21293 |
| 10.00 | 450 to 3000 | 21294 |

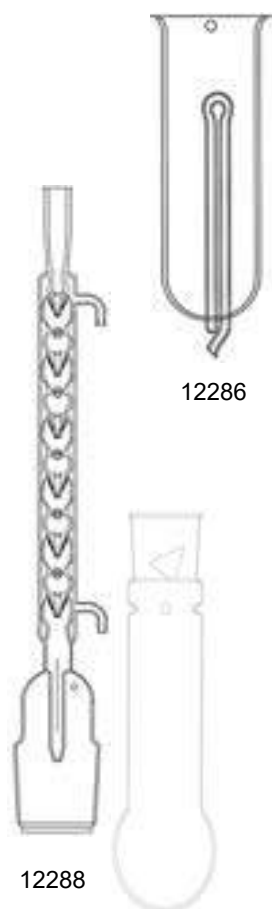
GLASSWARE SETS

ORSAT DEVICE

Smoke analyzer used to dose the component of a gas by absorption into the bells to liquid reagents (carbon dioxide, unsaturated hydrocarbons, oxygen) and determination of hydrogen by combustion of copper oxide, methane and ethane combustion on spiral platinum.

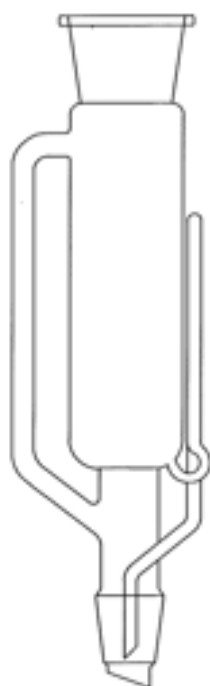
| REF. | DESCRIPTION |
|-------|--|
| 13907 | 3-position device for dosing CO, CO ₂ , O ₂ , delivered in hard case with carrying handle. Complete booklet (no reagent) |
| 13917 | Absorber |
| 14155 | Rubber gas bulb |
| 13918 | Jacket |
| 13919 | Burette 0-30% at 1/5% and 50-90% at 1% |
| 13920 | Bottle |
| 13921 | Drying tube |
| 13950 | 3-position ramp with tap |
| 13953 | Rubber stopper for top cover (pack of 2) |
| 13954 | Rubber stopper for bottom cover (pack of 2) |

KUMAGAWA EXTRACTOR



| REF. | DESCRIPTION |
|--------|---|
| 12280* | Complete extractor, 125 mL capacity |
| 12284* | Complete extractor, 250 mL capacity |
| 12288* | Complete extractor, 500 mL capacity |
| 12281 | Spare flask (250 mL) for 12280 - CN 50/42F |
| 12285 | Spare flask (500 mL) for 12284 - CN 60/46F |
| 12289 | Spare flask (1000 mL) for 12288 - CN 85/70F |
| 12282 | Spare extractor tube (125 mL) |
| 12286 | Spare extractor tube (250 mL) |
| 12290 | Spare extractor tube (500 mL) |
| 12283 | Spare condenser CN male 50/42 |
| 12287 | Spare condenser CN male 60/46 |
| 12291 | Spare condenser CN male 85/70 |

SOXHLET EXTRACTOR



12130

| REF. | DESCRIPTION |
|-------|---|
| 12128 | Complete extractor, 60 mL capacity |
| 12133 | Complete extractor, 125 mL capacity |
| 12138 | Complete extractor, 200 mL capacity |
| 12143 | Complete extractor, 500 mL capacity |
| 12148 | Complete extractor, 1000 mL capacity |
| 12129 | Spare flask (100 mL) for 12128 - CN 24/29F |
| 12849 | Spare flask (250 mL) for 12133 - CN 24/29F |
| 12853 | Spare flask (500 mL) for 12138 - CN 29/32F |
| 12856 | Spare flask (1000 mL) for 12143 - CN 29/32F |
| 12149 | Spare flask (2000 mL) for 12148 - CN 40/38F |
| 12130 | Spare extractor tube (60 mL) - CN 34/35F - 24/29M |
| 12135 | Spare extractor tube (125 mL) - CN 45/40F - 24/29M |
| 12140 | Spare extractor tube (200 mL) - CN 50/42F - 29/32M |
| 12145 | Spare extractor tube (500 mL) - CN 71/51F - 29/32M |
| 12150 | Spare extractor tube (1000 mL) - CN 85/55F - 40/38M |
| 30211 | Condenser 4 balls - CN 24/29M |
| 12142 | Condenser 4 balls - CN 29/32M |
| 12147 | Condenser 6 balls - CN 29/32M |
| 12152 | Condenser 8 balls - CN 29/32M |

INDEX - STANDARD METHODS

ASTM standards

ASTM D 20 p 5
ASTM D 36 p 16
ASTM D 70 p 16
ASTM D 86 p 5-6
ASTM D 87 p 16
ASTM D 88 p 19
ASTM D 91 p 12
ASTM D 95 p 6
ASTM D 96 p 12
ASTM D 97 p 8
ASTM D 156 p 11
ASTM D 224 p 19
ASTM D 322 p 7
ASTM D 381 p 9
ASTM D 402 p 5 & 16
ASTM D 445 p 20-26
ASTM D 473 p 12
ASTM D 524 p 12
ASTM D 525 p 9
ASTM D 566 p 14
ASTM D 611 p 10
ASTM D 665 p 14
ASTM D 721 p 17
ASTM D 892 p 14
ASTM D 893 p 12
ASTM D 941 p 17
ASTM D 943 p 9
ASTM D 1078 p 5-6
ASTM D 1177 p 8
ASTM D 1217 p 17
ASTM D 1266 p 10
ASTM D 1319 p 10
ASTM D 1401 p 15
ASTM D 1481 p 17
ASTM D 1500 p 11
ASTM D 1665 p 19
ASTM D 1796 p 12
ASTM D 1837 p 7
ASTM D 2158 p 7
ASTM D 2171 p 22

ASTM D 2265 p 14
ASTM D 2272 p 9
ASTM D 2273 p 13
ASTM D 2274 p 9
ASTM D 2386 p 8
ASTM D 2500 p 8
ASTM D 2784 p 15
ASTM D 2872 p 17
ASTM D 3235 p 17
ASTM D 3427 p 15
ASTM D 3603 p 14
ASTM D 4006 p 7
ASTM D 4007 p 12
ASTM D 4310 p 9
ASTM D 4530 p 13
ASTM D 6560 p 18
ASTM E 102 p 11
ASTM E 123 p 7
ASTM E 133 p 5-6

DIN standards

DIN 51421 p 8
DIN 51565 p 7
DIN 51566 p 14
DIN 51571-2 p 17
DIN 51578 p 11
DIN 51585 p 14
DIN 51587 p 9
DIN 51595 p 17
DIN 51751 p 5-6
DIN 51757 p 17
DIN 51784 p 9
DIN 51789 p 12
DIN 51791 p 10
DIN 51793 p 12

EN standards

EN 116 p 8
EN 1427 p 16
EN 13358 p 5
EN 24260 p 11

IP standards

IP 14 p 12
IP 15 p 8
IP 16 p 8
IP 23 p 7
IP 27 p 5
IP 53 p 12
IP 55 p 16
IP 70 p 19
IP 71 p 20-26
IP 74 p 6
IP 75 p 12
IP 107 p 10
IP 123 p 5-6
IP 131 p 9
IP 135 p 14
IP 142 p 17
IP 143 p 18
IP 146 p 14
IP 156 p 10
IP 158 p 17
IP 188 p 7
IP 190 p 16
IP 191 p 5-6
IP 227 p 11
IP 229 p 9
IP 309 p 8
IP 317 p 7

ISO standards

ISO 2049 p 11
ISO 3013 p 8
ISO 3016 p 8
ISO 3104 p 20-26
ISO 3105 p 20-26
ISO 3405 p 5-6
ISO 3733 p 6
ISO 3735 p 12
ISO 3837 p 10
ISO 3838 p 16
ISO 4260 p 11

ISO 4263 p 9
ISO 4625 p 16
ISO 6246 p 9
ISO 6247 p 14
ISO 6614 p 15
ISO 7536 p 9
ISO 9120 p 15
ISO 10370 p 13
ISO 12205 p 9

NF standards

NF M07013 p 9
NF M07021 p 10
NF M07024 p 10
NF M07031 p 10
NF M07032 p 7
NF M07042 p 8
NF M41012 p 7
NF T60102 p 14
NF T60105 p 8
NF T60113 p 6 & 7
NF T60114 p 16
NF T60115 p 17
NF T60117 p 12
NF T60120 p 17
NF T60125 p 15
NF T60149 p 15
NF T60151 p 14
NF T60156 p 12
NF T66003 p 5

OUR STAR PRODUCTS



NPM 450

ASTM D 93, ISO 2719, IP 34
Pensky Martens Flash Point Tester



NDI 450

ASTM D 86, ISO 3405; IP 123
Atmospheric Distillation Unit



NBA 450

ASTM D 36, ISO 4625, IP 58
Softening Point Tester (Ring and Ball Method)



NSB TECH

ASTM D 3230, IP 265
Salt in Crude Oils Tester



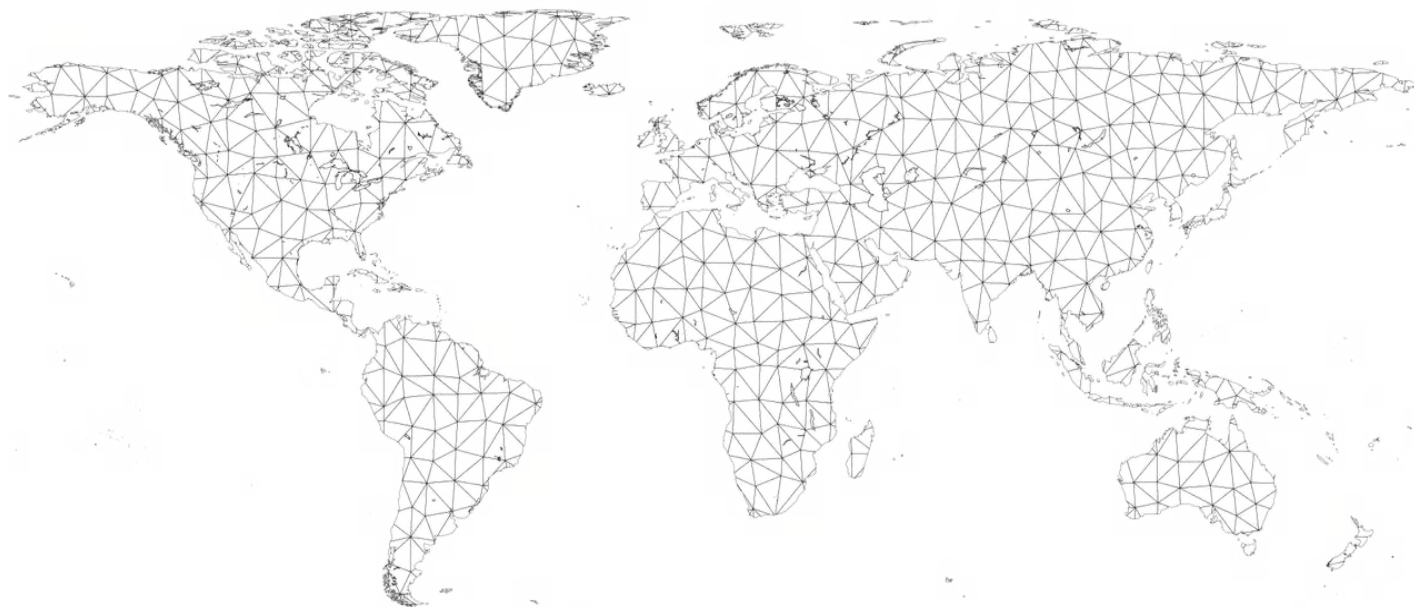
NABLEND

ASTM D 613, D 2699, D 2700
Automatic Blending Unit for Cetane and Octane



PENETROMETER

ASTM D 5, D 217, D 937, D 1321, D 1403, EN 1426
Penetrometer Multiple Application



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