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Setting New Standards in Reference Materials

Excellence as Standard

Paragon Scientific Limited specialise in the production of a fully comprehensive range of premium Certified Reference Materials (CRMs) and Standards.

Founded in 1994, we have developed an international reputation synonymous with quality, prompt delivery, affordability and first class customer service. We are committed to develop, manufacture and supply the highest quality standards and reference materials available in the marketplace. We believe that this approach combined with key attention to customer service, technical support and prompt delivery is key to our business success.

A combination of advanced manufacturing techniques, the use of primary laboratory test equipment and methodology plus our acute attention to detail enables us to produce reference materials with some of the lowest levels of uncertainty of measurement available. Our vast knowledge and expertise in the manufacture of reference materials and the robust certification process that we adopt, ensures the highest level of confidence and product integrity.

Paragon's products are used in multiple industries throughout the world, which we serve both directly from our headquarters in the UK and via our appointed global distributor network. Our products and services are suitable for a wide-range of industries across the globe. Here are some of the industries we work in:

- Petroleum & Petrochemical
- Food & Beverage
- Pharmaceutical & Medical
- Paints & Coatings
- Adhesive
- Electronics
- Automobile & Aviation

Our Accreditations

Paragon Scientific hold dual accreditation status under The United Kingdom Accreditation Service (UKAS) to international standards of ISO 17025 and ISO Guide 34.

Our dual ISO Guide 34 / ISO 17025 accreditations under UKAS provide unprecedented quality assurance on a global scale and allows us to produce what is known as the "Gold Standard" of Certified Reference Materials and Calibration Standards.

UKAS Approved Excellence

The United Kingdom Accreditation Service (UKAS) is the sole national accreditation body recognised by the UK Government for certification and conformity to internationally agreed standards for testing, calibration and inspection.

UKAS is a signatory to Internal Laboratory Accreditation Cooperation (ILAC) which is the international body for promoting cooperation between the various inspection body accreditation schemes that operate throughout the world. Other signatories include, but are not limited to, A2LA (USA), COFRAC (France), Dakks (Germany) and JAB (Japan).

ISO 17025 / ISO Guide 34 accreditation denotes competence for customers to make an informed and confident choice in the procurement process. The UKAS mark ensures buyers have peace of mind. ILAC also bridges international barriers, making trade easier, especially in new growth markets.

International Recognition

ISO 17025 is a recognised international standard for competence to carry out testing and calibrations to the standard indicated by international test method protocol or calibration procedures. This requires accredited facilities to comply with all the requirements detailed within the varied sections of the standard.

These include: assuring quality of test, technical competence of staff employed, calibration results, environmental conditions and procurement. ISO/IEC 17025 is applicable to laboratories that operate in a multitude of business sectors, including automotive, cosmetics, micro-electronics, petro-chemical, pharmaceutical and power generation.

ISO Guide 34 provides the highest level of Quality Assurance, confirms the expertise of the manufacturer, the integrity of the production systems and the reliability of the Certified Reference Materials that it produces. Combined with our ISO 17025 accreditation, the highest level of quality assurance is achieved through ISO 17025 / ISO Guide 34 accreditations. This is commonly referred to as 'The Gold Standard' in the production of Certified Reference Materials.



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How Our Accreditation Benefits Our Customers

Not all Reference Material producers are the same...

Accreditation is a means of rigorous assessment, and does so to fully assess the technical competence and veracity of organisations offering services such as Certified Reference Materials. The need for specified standards is crucial to global trade and growing industries and, naturally, the need for organisations to comply and perform to such standards has increased. International standards are essential to global cooperation across wide-ranging industries, and so, the importance of accuracy and quality needs to translate on an international basis.

More than just following a script for international standards, facilities that have been accredited provide assurance for all involved in demonstrating best practice and quality performance. Our accreditation is proof of technical competence and integrity. Formal recognition of this allows our customers to feel certain in the quality of the products we produce.

Seals of Approval

As an accreditation body, UKAS have signatories to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA), which means that they themselves have been assessed against the requirements of ISO 17011 by their peers. In doing so, the subsequent accreditations that they grant to accredited laboratories guarantees standards of equivalent value.

Having gained UKAS's approval for ISO Guide 34 and ISO 17025 Paragon is proud to have UKAS and ILAC-MRA signatories on our accredited products and services.

It is important for customers to always examine the credentials of any producer of reference materials. As an accredited laboratory, we can easily verify our technical competence and have full detailed technical analysis and traceable methodology for all of our products and services.

Confidence as Standard

As an accredited laboratory, our products follow in strict accordance with an international test method protocol and, most importantly, have been formally recognised in our competence to do so. Our expertise and confidence in the quality of our products has undergone continual examination ensuring that only the highest level of analytical integrity is achieved.

Since gaining accreditation is not a one-off measure, Paragon is regularly evaluated to ensure we continue to comply with excellent standards. The assessment reaches all aspects of our technical operations, followed by extensive reports from UKAS on continual performance and improvement.

Overall, we are proud of our accreditations because:

- ✓ We comply with the best practices
- ✓ We only use highest quality raw materials
- ✓ We consistently deliver reliability and guaranteed consistency
- ✓ We are accurate in our services on an international basis
- ✓ We have the right people, technical expertise and excellent track record
- ✓ Our certificates have all the signatories required to prove the claims we make
- ✓ Our certification is clear and unambiguous

Certified Reference Materials (CRM's)

Paragon Scientific's range of Certified Reference Materials for Cold Filter Plugging Point (CFPP), Cloud Point, Density, Distillation, Element / Chemical, FAME, Flash Point, Freezing Point, Fuels Testing and Pour Point ensures good inter-laboratory correlation, are fully traceable to national standards and certified using independent testing laboratories worldwide.

- Tested in accordance with ASTM / EN or IP test method protocols
- Certified by Round Robin Method using independent test laboratories
- Ensures good inter-laboratory correlation
- Supplied in tamper evident UN compliant security pack
- Supplied in varying pack sizes from 50mL to 1000mL
- 1 year shelf life



Test Type	Test Method	Product Nature	Certified Value	Pack Size
Cold Filter Plugging Point	CFPP ASTM D6371; EN 116 / IP 309	Diesel	-19.2°C	250 mL
Cloud Point	Cloud Point ASTM D2500; NF EN23015	Diesel	-6.4°C	250 mL
Density	ASTM D4052; ISO 12185	Gasoline (unleaded)	0.7377 g/mL @ 15°C	250 mL
Density	ASTM D4052; ISO 12185	Diesel	0.8440 g/mL @ 15°C	250 mL
Density	ASTM D4052; ISO 12185	Jet Aviation Fuel	0.7927 g/mL @ 15°C	250 mL
Density	ASTM D4052; ISO 12185	Lubricant	0.8642 g/mL @ 15°C	250 mL
Distillation	Distillation ASTM D86; NF EN ISO 3405	Diesel	164.5°C - 360.0°C	250 mL
Distillation	Distillation ASTM D86; NF EN ISO 3405	Gasoline (unleaded)	32.7°C - 180.2°C	250 mL
Distillation	Distillation ASTM D86; NF EN ISO 3405	Jet Aviation Fuel	149.6°C - 256.1°C	250 mL
Element/Chemical	Sulphur Content ASTM D5433; ISO 20846	Diesel	309.0 mg/kg	50 mL
Element/Chemical	Mercaptan Sulphur Content ASTM D3227; ISO 3012	Jet Aviation Fuel	3.13 mg/kg	250 mL
Fatty Acid Methyl Ester	Infrared Spectrometry Method, EN 14078	Diesel	3.42% (%Volume, Range B)	250 mL
Flash Point	Abel IP 170	Jet Aviation Fuel	41.2°C	250 mL
Flash Point	TAG ASTM D56	Jet Aviation Fuel	41.7°C	250 mL
Flash Point	PMCC ASTM D93 Procedure B	Lubricant	190.5°C	250 mL
Flash Point	PMCC ASTM D93 Procedure A	Diesel	60.2°C	250 mL
Flash Point	COC ASTM D92	Lubricant	256.8°C	250 mL
Flash Point	Abel IP 170	Jet Aviation Fuel	40.6°C	250 mL
Freezing Point	ASTM D2386	Jet Aviation Fuel	-54.1°C	250 mL
Freezing Point	ASTM D2386	Jet Aviation Fuel	-50.2°C	250 mL
Fuels Testing	Aromatics Content ASTM D5580	Gasoline	26.90%	250 mL
Fuels Testing	Acidity ASTM D3242	Jet Aviation Fuel	0.0016 mg KOH/g	250 mL
Fuels Testing	Aniline Point ASTM D611	Jet Aviation Fuel	58.90°C	250 mL
Fuels Testing	Benzene Content ASTM D4053 / D5580	Gasoline	0.795% Vol.	250 mL
Fuels Testing	Cetane Number ASTM D613	Diesel	52.6	1 Litre
Fuels Testing	FIA Aromatics ASTM D1319	Jet Aviation Fuel	19.30% Vol.	250 mL
Fuels Testing	Motor Octane Number ASTM D2700	Gasoline (unleaded)	85.9	1 Litre
Fuels Testing	Res. Octane Number ASTM D2699	Gasoline (unleaded)	97.2	1 Litre
Fuels Testing	Reid Vapour Pres. ASTM D4953A / 323A	Gasoline	64.0 kPa	250 mL
Pour Point	ASTM D97	Diesel	-24.0°C	250 mL
Pour Point	IP 15; ASTM D97, ISO 3016, BS 2000, Pt 15	Lubricant	-14.7°C	250 mL

All certified values stated are nominal

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ISO Guide 34 Certified Reference Materials (CRM's)

Paragon Scientific's range of Certified Reference Materials has now been extended to include the worlds-first range of ISO Guide 34 Diesel, Jet Aviation Fuel, Gasoline and Lubricant Certified Reference Materials.

This range of Certified Reference Materials is premium level, certified and manufactured in strict accordance and compliance with ISO Guide 34:2000 under our UKAS accreditation. They provide high traceability verification options for laboratory instruments, with their values certified to the highest level of accreditation integrity available globally.

Key benefits include:

- Fully certified in accordance with ISO Guide 34 under our accreditation by UKAS
- Highest level of accreditation guarantee, providing the most credible certified data currently available world-wide
- Low levels of uncertainty achieves maximum accuracy of data
- All data generated exclusively by ISO 17025 accredited laboratories
- Fully traceable to international standards
- Supplied in tamper evident UN compliant security pack
- 6 month - 12 month shelf life
- Available from stock for immediate dispatch
- Manufactured in the United Kingdom
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages

Test Type	Test Method	Product Nature	Certified Value	Pack Size
Cold Filter Plugging Point	CFPP ASTM D6371; IP 309	Diesel	-17.4°C	250 mL
Cold Filter Plugging Point	CFPP ASTM D6371; IP 309	Diesel	-27.1°C	250 mL
Cloud Point	Cloud Point ASTM D2500; ISO 3015; IP 219	Diesel	-6.7°C	250 mL
Density	ASTM D4052; IP 365 / ISO 12185	Gasoline	0.7377 g/mL @ 15°C	250 mL
Density	ASTM D4052; IP 365 / ISO 12185	Diesel	0.8440 g/mL @ 15°C	250 mL
Density	ASTM D4052; IP 365 / ISO 12185	Jet Aviation Fuel	0.79672 g/mL @ 15°C	250 mL
Distillation	Distillation ASTM D86; NF EN ISO 3405	Gasoline	31.8°C - 178.6°C	250 mL
Distillation	Distillation ASTM D86; NF EN ISO 3405	Diesel	168.5°C - 360.1°C	250 mL
Distillation	ASTM D86 Atmospheric Distillation	Jet Aviation Fuel	148.1°C - 260.3°C	250 mL
Flash Point	PMCC ASTM D93 Procedure B	Lubricant	190.5°C	250 mL
Flash Point	PMCC ASTM D93 Procedure B	Lubricant	105.7°C	250 mL
Flash Point	PMCC ASTM D93 Procedure A	Diesel	53.4°C	250 mL
Flash Point	ASTM D56, TAG Flash Point	Jet Aviation Fuel	40.4°C	250 mL
Flash Point	IP 170, Abel Flash Point	Jet Aviation Fuel	41.2°C	250 mL
Freezing Point	ASTM D2386	Jet Aviation Fuel	54.1°C	250 mL
Fuels Testing	Acidity ASTM D3242	Jet Aviation Fuel	0.0083 mg KOH/g	250 mL
Fuels Testing	FIA Aromatics ASTM D1319	Jet Aviation Fuel	16.53% Vol.	250 mL
Fuels Testing	Total Acidity, ASTM D3242	Jet Aviation	0.0083 mg KOH/g	250 mL
Fuels Testing	Aniline Point, ASTM D611	Jet Aviation	54.48°C	250 mL
Fuels Testing	Mercaptan Sulphur Content, D3227	Jet Aviation	0.00093%	250 mL
Fuels Testing	Smoke Point, ASTM D1322	Jet Aviation	24.25mm	250 mL
Pour Point	IP 15, ASTM D97, ISO 3016, BS 2000, Pt 15	Lubricant	-12.0°C	250 mL
Pour Point	IP 15, ASTM D97, ISO 3016, BS 2000, Pt 15	Diesel	-30.5°C	250 mL

All certified values stated are nominal



Multi-Parameter Certified Reference Materials (MPCRM's)

MPCRM's are premium level, dual certified reference materials certified in accordance with both ISO 17025 and ISO Guide 34 under our UKAS accreditation. They provide both calibration and verification options for laboratory test equipment, all from the same sample, with their values certified to the highest level of accreditation integrity available globally.

- Fully dual certified in accordance with ISO 17025 and ISO Guide 34 under our accreditation by UKAS
- Diesel MPCRM certified for Viscosity, Density, Flash Point, Cloud Point, CFPP and Distillation
- Lubricant MPCRM certified for Viscosity, Density, Flash Point COC, Flash Point PMCC, Pour Point and Viscosity Index
- Testing in accordance with ASTM/IP and EN test method protocols
- Highest level of accreditation guarantee, providing the most credible certified data currently available world-wide
- Low levels of uncertainty achieves maximum accuracy of data
- Multiple test parameters provide a flexible and cost effective solution
- All data generated exclusively by ISO 17025 accredited laboratories
- Fully traceable to international standards
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages
- 500mL inert glass packaging with tamper evident cap provides absolute assurance of sample integrity
- Available from stock for immediate dispatch
- Manufactured in the United Kingdom

Certified Viscosity Check Oils

Paragon Scientific's range of Certified Viscosity Check Oils are manufactured and certified in accordance with the requirements of ISO 17025 and ISO Guide 34. Kinematic viscosity measurements have been made in accordance with ASTM D445, using Reference Viscometers certified in accordance with ASTM D446 and ASTM D2162. Density, Cold-Crank Simulator (CCS) and Viscosity Index measurements have been made in accordance with ASTM D4052, ASTM D5293 and ASTM D2270 respectively.

The viscosity values for the certified viscosity check oils have been tested and certified at typical blend targets. These check oils are for the validating the performance of Cold-Cranking Simulator and Kinematic Viscometers by measuring commercially available formulated engine oils.

- Certified in strict accordance with ISO 17025 / ISO Guide 34
- Kinematic Viscosity mm²/s (cSt) in accordance with ASTM D445
- Density g/mL in strict accordance with ASTM D4052
- CCS Dynamic Viscosity mPa·s (cP) in accordance with ASTM D5293
- Viscosity Index in accordance with ASTM D2270
- Standard Pack Size 500mL and 5L available
- Fully traceable to National Standards
- Tamper evident security packaging
- 2 Year shelf life
- Manufactured in the United Kingdom

Please visit our website for up-to-date information: www.paragon-sci.com/certified-reference-materials/

Colour Standards

These Standards are ideal for the calibration or verification of colour measuring instruments, ensuring good inter-laboratory or inter-instrument correlation.

The range of liquid standards includes AOCS-Tintometer, ASTM, Gardner, Lovibond RYBN, Pt-Co and Saybolt Colour, the key colour scales applied to oils, fuels and chemicals. They are supplied with full traceability to internationally recognised standards, either UKAS to ISO 17025 / ISO Guide 34 (ASTM, Gardner & Saybolt Colour) or the ISO 9001 quality system (AOCS-Tintometer, Lovibond RYBN and Pt-Co Colour).

All standards are manufactured in the United Kingdom.



Please visit our website for up-to-date information: www.paragon-sci.com/colour-standards/

AOCS-Tintometer Colour Reference Standards

- Certified under ISO 9001 Quality system
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 1 year shelf life

ASTM (ASTM D6045, D1500) Colour Reference Standards

- Certified according to ISO 17025 / ISO Guide 34 under UKAS
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 1 year shelf life

Gardner (ASTM D1544, D6166) Colour Reference Standards

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 18 month shelf life

Lovibond RYBN Colour Reference Standards

- Certified under ISO 9001 Quality system
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 1 year shelf life

Pt-Co/Hazen/APHA (ASTM D1209) Colour Reference Standards

- Certified under ISO 9001 Quality system
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 1 year shelf life

Saybolt (ASTM D6045, D156) Colour Reference Standards

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Full traceability to international standards
- 500mL Pack Size supplied with MSDS
- 18 month shelf life

Density Standards

Paragon ISO 17025 / ISO Guide 34 dual certified Density standards are for the verification of instruments used to measure density of materials which are fluid at the desired test temperature within the range of 15°C to 150°C.

- ISO 17025 / ISO Guide 34 certified under our UKAS accreditation between 15°C to 100°C
- Density tested in strict accordance with ASTM D1480, a primary method for density determination
- Density standards range between 0.6500 - 1.6500 g/mL
- Ensures full compliance to ASTM and IP test method protocols
- Available as single bottle packs or triple pack kits
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages

Please visit our website for up-to-date information: www.paragon-sci.com/density-standards/

Pure Water Density Standards

Paragon ISO 17025 / ISO Guide 34 pure water Density standard is designed for the calibration or verification of instruments used to measure density. Typically used for, but not limited to the calibration or verification of digital density meters.

ISO 17025 / ISO Guide 34 certification under UKAS ensures full traceability to national standards.

- Dual certified to ISO 17025 / ISO Guide 34 under our UKAS accreditation
- Certified in accordance with primary level ASTM D1480 methodology
- The reagent water meets the definition of Type II in the Specification ASTM D1193
- Supplied in tamper evident packaging with a 12 month shelf life
- Available as single bottle packs or triple pack kits
- Manufactured in the United Kingdom
- Available from stock for immediate dispatch





Flash Point Standards

Paragon Scientific produces both primary Certified Reference Materials (CRM's) and Secondary Working Standards (SWS's) for flash point in strict accordance with the requirements of ASTM D92 (Cleveland Open Cup Flash Point) and ASTM D93 (Pensky Marten Closed Cup Flash Point).

In accordance with both methods we produce and certify:

Primary Certified Reference Materials (CRM's)

Certified Reference Materials (CRM's) which are certified primary standards. The data is established by a method-specific interlaboratory study in full compliance with ISO Guide 34 in accordance with our accreditation under UKAS. These materials are intended to be used at least once a year for instrument and/or method verification in accordance with ASTM D92 or ASTM D93.

ASTM D92 Cleveland Open Cup Flash Point Certified Reference Material

- Certified Reference Material for annual verification checks in accordance with ASTM D92
- Certified in strict accordance with our UKAS accreditation to ISO 17025 / ISO Guide 34 by means of a method specific inter-laboratory study
- Packaged in 3 x 80mL bottles - 'One shot', one bottle per test ensures zero contamination/high-end volatile loss
- Fully traceable to international standards
- 1 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages

ASTM D93 Pensky Marten Closed Cup Flash Point Certified Reference Material

- Certified Reference Material for annual verification checks in accordance with ASTM D93
- Certified in strict accordance with our UKAS accreditation to ISO 17025 / ISO Guide 34 by means of a method specific inter-laboratory study
- Packaged in 3 x 80mL bottles - 'One shot', one bottle per test ensures zero contamination/high-end volatile loss
- Fully traceable to international standards
- 1 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages

Please visit our website for up-to-date information: www.paragon-sci.com/flash-point-standards/

Secondary Working Standards (SWS)

Secondary Working Standards (SWS's) are standards that have been manufactured and certified by Paragon according to **ISO 17025 and ISO Guide 34**. These standards have been characterised in accordance with ASTM D92 or ASTM D93 and are designed to be used on a frequent basis in order to verify test equipment functionality as specified in ASTM D92 or ASTM D93. This is in addition to the use of primary CRM for the annual verification of an instrument.

ASTM D92 Cleveland Open Cup Flash Point Secondary Working Standard (SWS)

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Secondary working standard characterised in accordance with ASTM D92 for equipment performance checks
- Packaged in 3 x 80mL bottles - 'One shot', one bottle per test ensures zero contamination/high-end volatile loss
- Fully traceable to international standards
- 1 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages

ASTM D93 Pensky Marten Closed Cup Flash Point Secondary Working Standard

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation.
- Secondary working standard characterised in accordance with ASTM D93, Procedure A, for equipment performance checks
- Packaged in 3 x 80mL bottles - 'One shot' one bottle per test ensures zero contamination/high-end volatile loss
- Fully traceable to international standards
- 1 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages



Laboratory Reagents

Lithium Chloride Electrolyte

A high quality analytical reagent manufactured and certified compliant for use in ASTM D664 / IP 177, the "Standard Test Method for Acid Number of Petroleum products by Potentiometric Titration".

- A Lithium Chloride Electrolyte Analytical Reagent manufactured in accordance with ASTM D664 / IP 177
- Provided with a certificate which includes an estimation of uncertainty of manufacture
- Ensures full compliance with ASTM and IP test method requirements for reagent preparation
- Convenient 30mL bottle size for direct filling into the electrode
- Multi pack option available
- Cost effective and time saving
- MSDS included
- 6 month shelf life

Synthetic Sea Water

A high quality analytical reagent manufactured and certified compliant for use in ASTM D665 / IP 135, the "Standard Test Method for Rust-Preventing Characteristics of Inhibited Mineral Oil in the Presence of Water".

- A Synthetic Sea Water Analytical Reagent manufactured in accordance with ASTM D665 / IP 135
- Provided with a certificate which includes an estimation of uncertainty of manufacture
- Ensures full compliance with ASTM and IP test method requirements for reagent preparation
- Conveniently packaged in single dose or multi dose packs
- Cost effective and time saving
- MSDS included
- 1 year shelf life

Please visit our website for up-to-date information: www.paragon-sci.com/laboratory-reagents/

Refractive Index Standards

Sucrose Brix / Oil RI Standards

Paragon Scientific produces a range of Sucrose standards for use in the calibration and verification of all types of refractometer e.g. handheld, Abbe and high accuracy digital instruments. Sucrose standards are manufactured using traceable high purity materials following ICUMSA methods. These are the first standards available worldwide which carry a full certification according to ISO 17025 and ISO Guide 34 under UKAS accreditation.

Typically used within the food, beverage and pharmaceutical industries.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Primary refractive index standards traceable to national standards
- Manufactured in accordance with ICUMSA Methods
- Supplied in tamper evident packs with 6 weeks shelf life
- Manufactured in the United Kingdom
- Monthly delivery contracts available for economy, convenience and reliability

Paragon Scientific are able to supply Oil Refractive Index Standards manufactured and certified by Bellingham + Stanley, certified according to ISO 17025 under UKAS accreditation.

Please refer to our website for further information and availability.

Please visit our website for up-to-date information: www.paragon-sci.com/sucrose-brix-standards/

Total Base Number (TBN) Standards

Paragon TBN Standards are specifically manufactured for the verification of analytical instruments used to determine base number by potentiometric titration.

- Typically used in, but not limited to, the analysis of new oils, used oils and lubricants
- Tested and certified in strict accordance with ASTM D2896 / IP 276
- Fully traceable to international standards
- 2 year shelf life
- Available as a single or triple pack
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully complaint MSDS which are available in 24 languages

Please visit our website for up-to-date information: www.paragon-sci.com/total-base-number-standards/

Total Acid Number (TAN) Standards

Paragon TAN standards are specifically manufactured for the verification of analytical instruments used to determine acid number by potentiometric titration.

- Typically used in, but not limited to, the analysis of used oils and lubricants
- Tested and certified in strict accordance with ASTM D664 / IP 177
- Fully traceable to international standards
- 2 year shelf life
- Available as a single or triple pack
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully complaint MSDS which are available in 24 languages

Please visit our website for up-to-date information: www.paragon-sci.com/total-acid-number-standards/



Viscosity Standards

Paragon ISO 17025 / ISO Guide 34 dual certified viscosity standards are for the calibration and verification of glass capillary viscometers and other viscosity measuring equipment where operating temperature is controlled precisely.

At Paragon Scientific we understand the importance of accurate calibration in your laboratory so we only source the highest quality raw materials for use in the manufacture of all our viscosity standards. Using only the best quality materials means that our standards are highly stable in all environments, you will not experience 'flocking' (associated with cool environments), discolouration or sedimentation.

We fully test our products at every given data point, so you can be assured that the certified value given is the most accurate available.

Paragon Scientific Viscosity Standards are certified in strict accordance with the associated methodology under our dual UKAS accreditations for ISO 17025 and ISO Guide 34.

CCS Viscosity Standards (Cold Cranking Simulator)

Paragon ISO 17025 / ISO Guide 34 dual certified CCS viscosity standards are for the calibration and verification of analytical equipment used in Cold Cranking Simulator (CCS) oil testing to ASTM D5293 and SAE Specification J300.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Full traceability to national standards
- Ensures full compliance to ASTM & IP test method protocol
- 2 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages



Cone & Plate Viscosity Standards (CAP)

Paragon ISO 17025 / ISO Guide 34 dual certified cone and plate viscosity standards are specifically formulated for the paint and coatings industry and represent the most comprehensive range of standards available for this application.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Tested in strict accordance with ASTM D2162 ("Standard Practice for basic calibration of master viscometers and viscosity standard oils")
- Density g/mL in strict accordance with ASTM D1480
- Kinematic, mm²/s (cSt), Dynamic Viscosity mPa*s (cP) & Density, g/mL, given at all temperatures
- Ensures full compliance to ASTM & IP test method protocol
- Full traceability to national standards
- 2 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages

Flow Cup Viscosity Standards

Paragon ISO 17025 / ISO Guide 34 dual certified flow cup standards are especially designed for use in DIN, Ford, ISO, Shell and Zahn flow cups. Certified at 20°C and 25°C, each value is tested to ASTM D2162 for viscosity measurement and ASTM D1480 for density measurement.

Each value at every test temperature is tested to ASTM D2162.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Tested in strict accordance with ASTM D2162 ("Standard Practice for basic calibration of master viscometers and viscosity standard oils")
- Density g/mL in strict accordance with ASTM D1480
- Kinematic, mm²/s (cSt), Dynamic Viscosity mPa*s (cP) & Density, g/mL, given at all temperatures
- Ensures full compliance to ASTM & IP test method protocol
- Full traceability to national standards
- 2 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages

General Purpose Viscosity Standards

Paragon ISO 17025 / ISO Guide 34 dual certified general purpose viscosity standards are tested in strict accordance with ASTM D2162, ("Standard Practice for basic calibration of master viscometers and viscosity standard oils").

They are fully traceable to national standards and are test equipment compatible.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Tested in accordance with ASTM D2162 ("Standard Practice for basic calibration of master viscometers and viscosity standard oils")
- Density g/mL in strict accordance with ASTM D1480
- Kinematic, mm²/s (cSt), Dynamic Viscosity mPa*s (cP) & Density, g/mL, given at all temperatures
- Standard Pack Size 500mL, available also in 5L, 10L and 20L
- Fully traceable to national standards
- Ensures full compliance to ASTM & IP test method protocol
- 2 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages





Low Temperature Viscosity Standards

These standards are widely used for the verification of viscometers at sub-zero temperatures on a routine basis.

The use of Paragon ISO 17025 / ISO Guide 34 dual certified, low temperature standards can help provide confidence in overall system functionality including bath uniformity, bath stability, temperature measurement, timer accuracy and viscometer calibration.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- Standard Pack Size 500mL, available also in 5L, 10L and 20L
- Fully traceable to national standards
- Ensures full compliance to ASTM & IP test method protocol
- 2 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages

Medical Viscosity Standards

Tested in strict accordance with ASTM D2162, the primary method for viscosity standards calibration. These medical grade viscosity standards are fully traceable to national standards and are also test equipment compatible.

Typically used, but not limited to, the calibration and verification of viscosity measuring equipment used for measuring the viscosity of blood plasma.

- Certified according to ISO 17025 under our UKAS accreditation
- Pack size available in 100mL and 500mL
- Full traceability to national standards
- 1 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages

Mineral Oil Rotational Viscosity Standards

Paragon Scientific's mineral oil rotational viscosity standards are the first choice option where end users are unable to have silicone in their process. Dual certified to both ISO 17025 and ISO Guide 34 under our UKAS accreditation, they provide both calibration and verification options for rotational viscometer test equipment. The dynamic viscosity at 20 & 25°C is derived from the kinematic viscosity measured in strict accordance with ASTM D2162 and the density measured in strict accordance with ASTM D1480. Dynamic viscosity at intermediate temperatures is derived from the kinematic viscosity calculated in strict accordance with ASTM D341 and interpolated density measurements by calculation.

Key benefits include:

- Fully dual certified ISO 17025 and ISO Guide 34 under UKAS
- Broad spectrum viscosity range
- Low levels of uncertainty achieves maximum accuracy of data
- 500mL inert glass packaging with tamper evident cap provides absolute assurance of sample integrity
- Available from stock for immediate dispatch
- Fully traceable to international standards
- Supplied with the latest EU fully compliant MSDS
- 1 year shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages

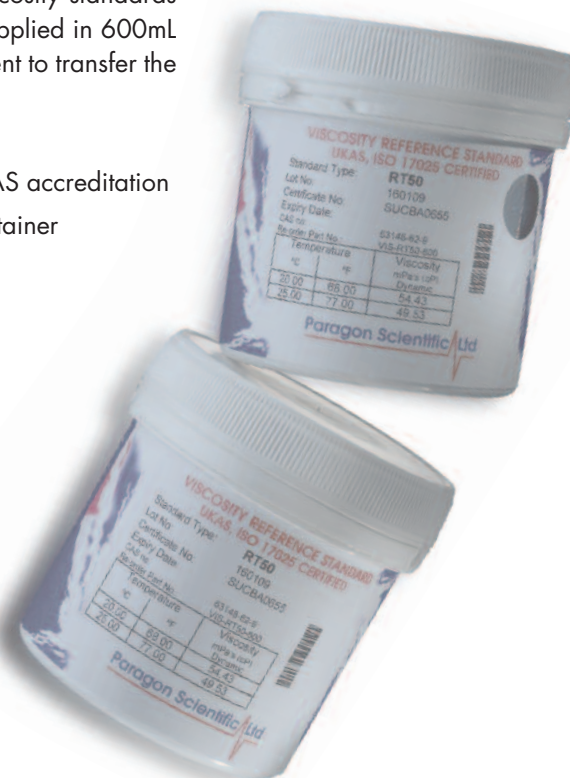
Silicone Rotational Viscosity Standards

Paragon ISO 17025 / ISO Guide 34 dual certified silicone viscosity standards are specifically formulated for use with rotational viscometers. Supplied in 600mL 'ready to use' packs specially designed to eliminate the requirement to transfer the sample to a test beaker.

Safer working, less mess, less waste, higher throughput.

- Certified according to ISO 17025 / ISO Guide 34 under UKAS accreditation
- 600mL of product supplied in a ready to use 'test in pack' container
- Tested and certified at 20°C and 25°C
- 1 year shelf life
- Ensures full compliance to international test method protocol
- Full traceability to national standards
- Custom blending available
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant MSDS which are available in 24 languages

Please visit our website for up-to-date information:
www.paragon-sci.com/viscosity-standards/



Special Blend Viscosity Standards

If you have a requirement for different temperatures or viscosity values we may be able to offer you a solution.

We also offer highly competitive rates for viscosity standard bulk blending where customers wish to have a supply of carefully prepared and guaranteed homogeneous Newtonian materials for use on a daily or high frequency basis.

There are many packaging options; from easy to use 100mL bottles for highly viscous materials where heating is necessary to load samples, to 2500mL safe-break Winchester bottles for use 'on plant' with in-line viscometers.

Glass Capillary Viscometers

BS/IP/RF U-Tube Reverse Flow Viscometer for Opaque Liquids

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D445, ISO 3104 and IP 71 Section 1

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D446, ISO 3105 and IP 71 Section 2
- Available with an ISO 17025 certificate of calibration or non-calibrated
- ISO 17025 calibration ensures low level of uncertainty of measurement

BS/IP/SL Viscometer for Transparent Liquids

For the determination of kinematic viscosity of transparent Newtonian liquids according to ASTM D445, ISO 3104 and IP 71 Section 1

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D446, ISO 3105 and IP 71 Section 2
- Available with an ISO 17025 certificate of calibration or non-calibrated
- ISO 17025 calibration ensures low level of uncertainty of measurement

BS/IP/SL(S) Viscometer for Transparent Liquids

For the determination of kinematic viscosity of transparent Newtonian liquids according to ASTM D445, ISO 3104 and IP 71 Section 1

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D446, ISO 3105 and IP 71 Section 2
- Available with an ISO 17025 certificate of calibration or non-calibrated
- ISO 17025 calibration ensures low level of uncertainty of measurement

BS/IP/MSL Viscometer for Transparent Liquids

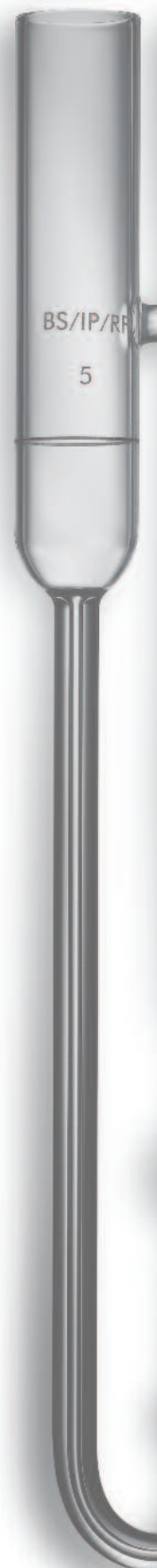
For the determination of kinematic viscosity of transparent Newtonian liquids according to ASTM D445, ISO 3104 and IP 71 Section 1

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D446, ISO 3105 and IP 71 Section 2
- Available with an ISO 17025 certificate of calibration or non-calibrated
- ISO 17025 calibration ensures low level of uncertainty of measurement

BS/U-Tube Viscometer for Transparent Liquids

For the determination of kinematic viscosity of transparent Newtonian liquids according to ASTM D445, ISO 3104 and IP 71 Section 1

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D446, ISO 3105 and IP 71 Section 2
- Available with an ISO 17025 certificate of calibration or non-calibrated
- ISO 17025 calibration ensures low level of uncertainty of measurement





BS/U/M Miniature Viscometer for Transparent Liquids

For the determination of kinematic viscosity of transparent Newtonian liquids according to ASTM D445, ISO 3104 and IP 71 Section 1

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D446, ISO 3105 and IP 71 Section 2
- Available with an ISO 17025 certificate of calibration or non-calibrated
- ISO 17025 calibration ensures low level of uncertainty of measurement

Cannon-Fenske Routine Viscometer for Transparent Liquids

For the determination of kinematic viscosity of transparent Newtonian liquids according to ASTM D445, ISO 3104 and IP 71 Section 1

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D446, ISO 3105 and IP 71 Section 2
- Available with an ISO 17025 certificate of calibration or non-calibrated
- ISO 17025 calibration ensures low level of uncertainty of measurement

Cannon-Fenske Opaque Viscometer for Transparent & Opaque Liquids

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D445, ISO 3104 and IP 71 Section 1

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D446, ISO 3105 and IP 71 Section 2
- Available with an ISO 17025 certificate of calibration or non-calibrated
- ISO 17025 calibration ensures low level of uncertainty of measurement

Ubbelohde Viscometer for Transparent Liquids

For the determination of kinematic viscosity of transparent Newtonian liquids according to ASTM D445, ISO 3104 and IP 71 Section 1

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D446, ISO 3105 and IP 71 Section 2
- Available with an ISO 17025 certificate of calibration or non-calibrated
- ISO 17025 calibration ensures low level of uncertainty of measurement

Zeitfuchs Cross-Arm Viscometer for Transparent & Opaque Viscometer

For the determination of kinematic viscosity of transparent and opaque Newtonian liquids according to ASTM D445, ISO 3104 and IP 71 Section 1

- High Quality glass capillary viscometer
- Manufactured in accordance with ASTM D446, ISO 3105 and IP 71 Section 2
- Available with an ISO 17025 certificate of calibration or non-calibrated
- ISO 17025 calibration ensures low level of uncertainty of measurement

Please visit our website for up-to-date information: www.paragon-sci.com/glass-capillary-viscometers/

Hydrometers

Hydrometers from Paragon Scientific are manufactured to exacting specifications.

Each Hydrometer is available as non certified or with a UKAS certificate of calibration to ISO 17025.

We are able to supply the following range of Hydrometers:

L 20 @ 15°C Relative Density (SG) Hydrometers

M 50 @ 15°C Relative Density (SG) Hydrometers

L 50 @ 15°C Relative Density (SG) Hydrometers

L 20 @ 20°C Relative Density (SG) Hydrometers

M 50 @ 20°C Relative Density (SG) Hydrometers

L 50 @ 20°C Relative Density (SG) Hydrometers

*If you have a requirement for different hydrometers, we may be able to offer a solution.
Please contact us with your requirements.*



Thermometers

ASTM & IP Mercury in Glass Thermometers

Precision mercury in glass thermometers for use in specific ASTM / IP test methods. These thermometers are of the highest quality and easily readable with an etched surface scale and yellow backing.

The ASTM designation ensures that these thermometers meet the strict guidelines of the American Society for Testing and Materials (ASTM). The IP designation indicates that the thermometer specification has been jointly agreed upon by the British Institute of Petroleum (IP) and ASTM.

To order a UKAS (ISO 17025) calibration certificate with a thermometer please select the type required from Calibration Services

- Stabilisation of the thermometer zero point by careful artificial ageing (molecular constant)
- The solid-stem types have the graduation indestructibly diffused into the glass surface and are acid and base resistant
- The enclosed-scale versions each have a prismatic capillary that makes for better reading
- Measurement accuracy within tolerances specified by AFNOR, ANSI, ASTM, BS, DIN, IP, ISO, TB, S.T.P.T.C. or other standardisation institutes

Digital Platinum Resistance Thermometers

Paragon Scientific has available, high accuracy Hand Held and Bench Top thermometers, together with a range of highly stable reference probes, available for a wide range of temperatures.

These thermometers are manufactured using the latest technology.

Please refer to our website for further information and availability.

ASTM Glassware

Paragon Scientific can offer a large range of ASTM Glassware for the petroleum and lubricants industry. This includes, but is not restricted to, ASTM D86 Distillation Flask and Receivers, ASTM D97 Pour Point Jars, ASTM D524 Ramsbottom Cooking Bulbs and ASTM D1319 FIA Analyser Tubes.

Paragon Scientific are able to supply ASTM Glassware to fit different manufacturers equipment.

Please refer to our website for further information and availability.

Testing & Calibration Services

Bath Calibration

Bath Calibration designed specifically to determine the bath stability and uniformity in accordance with the requirements of ASTM D445 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity).

- Calibration in accordance with ASTM D445
- Supplied with a ISO 17025 certificate of calibration

Capillary Viscometer Recalibration

Designed specifically to keep your costs to a minimum. Send your viscometers to us for cleaning and full UKAS recalibration.

- Cleaning and full recalibration in accordance with ASTM D445 / D446
- Available with a ISO 17025 certificate of calibration
- Repacking into a viscometer box
- Damaged viscometers can be assessed and quoted prior to repair and calibration

Flow Cup Calibration

We are able to offer a calibration service for Flow Cups. Our service has been designed specifically to keep your calibration costs to a minimum. Send your Flow Cup to us for cleaning and full recalibration.

We can offer this service for the following:

- Flow Cup to ASTM D1200
- Flow Cup to ISO 2431
- Flow Cup to BS 3900
- Zahn Flow Cup

Hydrometer Calibration

Hydrometer Calibration Service, UKAS ISO 17025 Certified.

We are able to offer a calibration service for Hydrometers within a range of 0.6000 g/mL to 2.000 g/mL with best measurement capability from 0.00005 g/mL.

This service is available in conjunction with products from our Hydrometer Range and is also offered as a recalibration service.

Thermometer Calibration

Paragon Scientific can offer full ISO 17025 calibration on all Thermometers.

This service is available in conjunction with products from our Thermometer Range and is also offered as a recalibration service.

Paragon Scientific Proficiency Testing Scheme (PTS)

Our vast experience, knowledge and technical competence in producing and distributing reference materials for end-users around the world gives you the confidence that each scheme is managed to the highest level of analytical integrity.

What is PTS?

Proficiency Testing Schemes also known as Inter-laboratory Comparisons, Round Robin Studies, Cross Check Programs or Inter-laboratory Studies.

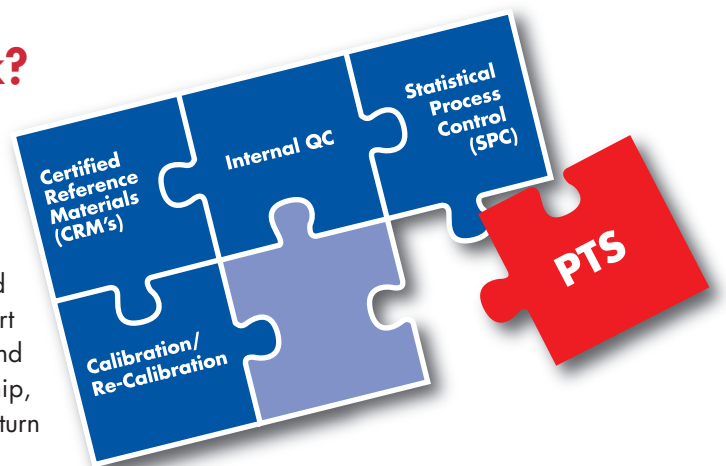
PTS provides a means of evaluating the performance of laboratories for specific tests or measurements and monitoring laboratories' continuing performance - ISO /IEC 17043.

Why take part in PTS?

The utilisation of proficiency testing schemes within a testing laboratory environment is a key quality assurance tool that enables the participants of the scheme to monitor and compare their results against similar laboratories. Furthermore, participation within a proficiency testing scheme is a means of assuring the quality of test and calibration results **as required by ISO/IEC 17025**.

How does Paragon PTS work?

The proficiency testing schemes organised, executed and reported by Paragon Scientific are test specific. Test item volumes are tailored to the requirements of the test, thus reducing transportation and waste disposal costs. The packaging is unique to each test item and conforms to all international safety and transport requirements. The scheme itself is entirely web based and almost paperless, allowing easy on-line membership, traceable communications, test item tracking and fast return of data.



Benefits of PTS?

PTS programs are invaluable Quality Assurance tools delivering high quality information which allows participants to:

- Evaluate the laboratory's performance for specific tests and measurements and monitor on-going performance
- Identify problems in laboratories and initiate actions for improvement which, for example, may be related to inadequate test or measurement procedures, staff training and supervision or calibration of laboratory test equipment.
- Establish the effectiveness and comparability of test or measurement methods
- Provide additional confidence to laboratory customers
- Identify inter-laboratory differences
- Validate uncertainty claims

PTS Schedule

Month	Material	Subscription Close Date	Sample Dispatch Date	Results Close Date	Scheme Report Date
January	Diesel	First Week Dec	First Week Jan	Last Week Jan	First Week Feb
February	Engine Oil	First Week Jan	First Week Feb	Last Week Feb	First Week Mar
March	Jet A1	First Week Feb	First Week Mar	Last Week Mar	First Week Apr
April	Gasoline	First Week Mar	First Week Apr	Last Week Apr	First Week May
May	Diesel	First Week Apr	First Week May	Last Week May	First Week Jun
June	Engine Oil	First Week May	First Week Jun	Last Week Jun	First Week Jul
July	Jet A1	First Week Jun	First Week Jul	Last Week Jul	First Week Aug
August	Gasoline	First Week Jul	First Week Aug	Last Week Aug	First Week Sept
September	Diesel	First Week Aug	First Week Sept	Last Week Sept	First Week Oct
October	Engine Oil	First Week Sept	First Week Oct	Last Week Oct	First Week Nov
November	Jet A1	First Week Oct	First Week Nov	Last Week Nov	First Week Dec
December	Gasoline	First Week Nov	First Week Dec	Last Week Dec	First Week Jan

Please refer to our website www.paragonpts.com or contact your local representative for the list of test parameters for each material and to confirm PTS schedule dates.

Contact us at:

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Email: sales@paragon-sci.com

www.paragon-sci.com

www.paragon-sci.com

Have you visited our website recently?

Register online to obtain full access to our e-commerce enabled website.

Features include:

Net Prices, Order Tracking, Order History and all the latest product information.

Our Partners

Paragon Scientific supplies for a number of well-known industry brands and specialists, many have long-standing friendships with Paragon and are pioneers of the scientific industry.

Bellingham & Stanley

Bellingham and Stanley are one of the world's leading manufacturers of refractometers and polarimeters. Their instrumentation has market dominance in over 80 countries around the world and are known for their high quality and performance. Paragon are proud to work alongside Bellingham and Stanley and supply their high performing instruments, which are used extensively throughout the world's food, pharmaceutical and petroleum industries.



Fungilab

Fungilab S.A. was founded in Barcelona and was over 25 years of experience operating in the viscosity world. Fungilab are a leading manufacturer of high quality control equipment for viscosity measurement and a proud partner for Paragon Scientific. Their main focus is to research, develop and manufacture the most advanced viscometers and offer customers the highest and most accurate performance in the viscosity measurement.



Grant Instruments

Grant is a world leader in the manufacture and design of equipment for sample preparation, scientific analysis and data analysis providing solutions to the global scientific and industrial markets. Grant's focus is to provide the best to offer in data analysis, and Paragon are proud to be suppliers of their range of Heating Circulators and Baths.



Isotech

Isotech is a global market leader in temperature measurement and temperature calibration. Their wide range of temperature metrology equipment are used by some of the world's leading National Metrology Institutes as well as accredited temperature laboratories, research laboratories, pharmaceuticals, and Oil and Gas companies. Renowned for their innovation and award winning products, Paragon are proud suppliers and partners of Isotech.



Lovibond

Lovi-bond is the trade-name for water analysis specialists, Tintometer, and is a well-established name in over 120 countries. Lovibond offer innovative products for the precise determination of different types of water. They are a unique partner for Paragon as both share dedication to providing outstanding quality, maintained always at the highest level, across all products.



Sigma-Aldrich

Paragon Scientific is Sigma's preferred partner of choice as part of a strategic alliance focused on the production and future development of advanced reference materials. Sigma-Aldrich are a leading Life Science and High Technology company focused on the manufacture and distribution of more than 230,000 chemicals, biochemicals and other essential products to more than 1.4 million customers globally in research and applied labs for both industrial and commercial markets.



Stanhope-Seta

Stanhope-Seta design and manufacture petroleum test equipment and quality control instruments used to measure the physical characteristics that determine product quality and consistence. They have a wide-range of quality control instruments as well as test instruments which include flash point testers and oil test centrifuges. Paragon is proud to work with Stanhope-Seta who has developed a reputation for high-quality petroleum test instruments of advanced capabilities.







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