

CERTIFIED REFERENCE MATERIALS & STANDARDS



## **BROCHURE 2026**

**Precision. Accuracy. Measurement Certainty**

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## ARO Scientific Ltd

ARO Scientific Ltd is an independent ISO 17034 accredited reference material producer with ISO/IEC 17025 accredited testing laboratories, providing high quality certified reference materials, reference materials, standards, and consumables for calibration of measuring equipment, verification of measuring equipment, method validation, method verification, or other quality control processes applicable for international test methods such as ASTM, IP, ISO, etc. Our management team has more than 35 years' experience in the manufacturing, characterisation and certification of certified reference materials, reference materials, standards, and consumables.

## Our Commitment

ARO Scientific Ltd recognises that our customers should be always provided with products and services they can rely upon, trust and have confidence to use on a daily basis. Our commitment to quality and our accreditations demonstrates that we have rigorous quality systems in place that allow us to provide customers with the highest quality products possible, which are accepted globally.

## Our Values

ARO Scientific Ltd is guided by its principles and values that ensure the culture of the business is focused on our people working together towards our common business goals. This ensures we supply the highest quality products and services to our customers.

**Accountable** – We take ownership for the quality of our individual work but also take pride in what we deliver as a team. Our focus is on a successful outcome for our customers.

**Integrity** – We are honest, ethical, and trustworthy. We strive to do the right thing always, act truthfully and honourably. We do it all even when no one is watching.

**Passion** – We are passionate about everything we do, our people, our products, and our brand. We want to delight our customers through positive experiences with our business.

**Quality** – What we do, we do well. We pride ourselves on providing high quality products and services that, together, deliver best value to our customers in the markets we serve.

**Success** – We strive to be better than our competitors at understanding our customers and markets – this is key to us being successful. We celebrate and reward success.

# OUR ACCREDITATIONS

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## ARO Scientific Ltd

ARO Scientific Ltd is an independent ISO 17034 accredited reference material producer with ISO/IEC 17025 accredited calibration and testing laboratories, providing high quality certified reference materials, reference materials, standards, and consumables for calibration of measuring equipment, verification of measuring equipment, method validation, method verification, or other quality control processes applicable for international test methods such as ASTM, IP, ISO, etc. Our management team has more than 40 years' experience in the manufacturing, characterisation and certification of certified reference materials, reference materials, standards, and consumables.

## Accreditation

ARO Scientific Ltd holds triple accreditation status under The United Kingdom Accreditation Service (UKAS) to international standards ISO/IEC 17025 and ISO 17034, CAB No. 27393. 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 International 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/IEC 17025 / ISO 17034 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. Our Combined UKAS and ILAC-MRA Mark demonstrates that the accreditation we hold is recognised under the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement, our certificates are accepted around the world.

## Quality Commitment

ARO Scientific Ltd recognises that our customers should be always provided with products and services they can rely upon, trust and have confidence to use on a daily basis. Our commitment to quality and our accreditations demonstrates that we have rigorous quality systems in place that allow us to provide customers with the highest quality products possible, which are accepted globally.

# ACID NUMBER / TOTAL ACID NUMBER

ISO/IEC 17025 and ISO 17034 Acid Number (AN) / Total Acid Number (TAN)

Certified Reference Materials intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes applicable for the test method ASTM D664, or test methods IP 177, ISO 6619, where applicable.



New and used petroleum products are measured to confirm the Acid Number of the product under test. The Acid Number is an important quality control test for new and used products. The product under test may contain acidic constituents that are present as additives or from oxidation, contamination or degradation of products formed during use and service. These acidic constituents may indicate the presence of harmful acidic compounds that can accelerate the degradation of oil and lead to equipment failure. Regular monitoring of Acid Number can identify potential issues so that preventative measures can be taken to prevent costly breakdowns and extend the lifespan of machinery. This proactive approach helps in optimising maintenance schedules, reducing downtime, and maximizing operational efficiency.

Acid number – The quantity of base, expressed in milligrams of potassium hydroxide per gram of sample, required to titrate a sample in the solvent from its initial meter reading to a meter reading corresponding to a freshly prepared aqueous basic buffer solution or a well-defined inflection point as specified in the test method.

Our Acid Number (AN) / Total Acid Number (TAN) Certified Reference Materials have been characterised in accordance with ASTM D664, Method A. Manufacture and characterisation has been performed in accordance with our accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

| Part No. | Certification         | Matrix      | Nominal Value | Pack Size |
|----------|-----------------------|-------------|---------------|-----------|
| TAN001   | ISO 17025 / ISO 17034 | Mineral Oil | 0.1 mg KOH/g  | 125 g     |
| TAN001/3 | ISO 17025 / ISO 17034 | Mineral Oil | 0.1 mg KOH/g  | 3 x 125 g |
| TAN005   | ISO 17025 / ISO 17034 | Mineral Oil | 0.5 mg KOH/g  | 125 g     |
| TAN005/3 | ISO 17025 / ISO 17034 | Mineral Oil | 0.5 mg KOH/g  | 3 x 125 g |
| TAN010   | ISO 17025 / ISO 17034 | Mineral Oil | 1.0 mg KOH/g  | 125 g     |
| TAN010/3 | ISO 17025 / ISO 17034 | Mineral Oil | 1.0 mg KOH/g  | 3 x 125 g |
| TAN015   | ISO 17025 / ISO 17034 | Mineral Oil | 1.5 mg KOH/g  | 125 g     |
| TAN015/3 | ISO 17025 / ISO 17034 | Mineral Oil | 1.5 mg KOH/g  | 3 x 125 g |
| TAN020   | ISO 17025 / ISO 17034 | Mineral Oil | 2.0 mg KOH/g  | 50 g      |
| TAN020/3 | ISO 17025 / ISO 17034 | Mineral Oil | 2.0 mg KOH/g  | 3 x 50 g  |
| TAN025   | ISO 17025 / ISO 17034 | Mineral Oil | 2.5 mg KOH/g  | 50 g      |
| TAN025/3 | ISO 17025 / ISO 17034 | Mineral Oil | 2.5 mg KOH/g  | 3 x 50 g  |
| TAN030   | ISO 17025 / ISO 17034 | Mineral Oil | 3.0 mg KOH/g  | 50 g      |
| TAN030/3 | ISO 17025 / ISO 17034 | Mineral Oil | 3.0 mg KOH/g  | 3 x 50 g  |
| TAN050   | ISO 17025 / ISO 17034 | Mineral Oil | 5.0 mg KOH/g  | 50 g      |
| TAN050/3 | ISO 17025 / ISO 17034 | Mineral Oil | 5.0 mg KOH/g  | 3 x 50 g  |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# AROMATICS CONTENT

Aromatics Certified Reference Material (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes applicable for the test method ASTM D5580 for the determination of Aromatics in finished gasoline by Gas Chromatography (GC).

The test method is also applicable to gasolines containing oxygenates, such as alcohols and ethers as additives, because it has been found that they do not interfere with the analysis of benzene and other aromatics.

| Part No.   | Certification | Matrix   | Nominal Value | Pack Size |
|------------|---------------|----------|---------------|-----------|
| CRM-ACGA01 | Round Robin   | Gasoline | 28.2 % Volume | 250 mL    |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# BASE NUMBER / TOTAL BASE NUMBER

ISO/IEC 17025 and ISO 17034 Base Number (BN) / Total Base Number (TBN) Certified Reference Materials intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes applicable for the test method ASTM D2896, or test methods IP 276, ISO 3771, where applicable.



New and used petroleum products may contain basic constituents that are present as additives. The relative amounts of these materials can be determined by titrating with acids. The neutralisation number, which is expressed as base number, is a measure of this amount of basic substance in the oil always under the conditions of the test. The neutralisation number is used as a guide in the quality control of lubricating oil formulations. It sometimes is used as a measure of lubricant degradation in service.

base number, n—the quantity of a specified acid, expressed in terms of the equivalent number of milligrams of potassium hydroxide per gram of sample, required to titrate a sample in a specified solvent to a specified endpoint using a specified detection system.

Our Base Number (BN) / Total Base Number (TBN) Certified Reference Materials have been characterised in accordance with ASTM D2896, Procedure A. Manufacture and characterisation has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

| Part No. | Certification         | Matrix      | Nominal Value | Pack Size |
|----------|-----------------------|-------------|---------------|-----------|
| TBN1     | ISO 17025 / ISO 17034 | Mineral Oil | 1.0 mg KOH/g  | 125 g     |
| TBN1/3   | ISO 17025 / ISO 17034 | Mineral Oil | 1.0 mg KOH/g  | 3 x 125 g |
| TBN3     | ISO 17025 / ISO 17034 | Mineral Oil | 3.0 mg KOH/g  | 50 g      |
| TBN3/3   | ISO 17025 / ISO 17034 | Mineral Oil | 3.0 mg KOH/g  | 3 x 50 g  |
| TBN6     | ISO 17025 / ISO 17034 | Mineral Oil | 6.0 mg KOH/g  | 50 g      |
| TBN6/3   | ISO 17025 / ISO 17034 | Mineral Oil | 6.0 mg KOH/g  | 3 x 50 g  |
| TBN10    | ISO 17025 / ISO 17034 | Mineral Oil | 10.0 mg KOH/g | 50 g      |
| TBN10/3  | ISO 17025 / ISO 17034 | Mineral Oil | 10.0 mg KOH/g | 3 x 50 g  |
| TBN15    | ISO 17025 / ISO 17034 | Mineral Oil | 15.0 mg KOH/g | 50 g      |
| TBN15/3  | ISO 17025 / ISO 17034 | Mineral Oil | 15.0 mg KOH/g | 3 x 50 g  |
| TBN30    | ISO 17025 / ISO 17034 | Mineral Oil | 30.0 mg KOH/g | 50 g      |
| TBN30/3  | ISO 17025 / ISO 17034 | Mineral Oil | 30.0 mg KOH/g | 3 x 50 g  |
| TBN40    | ISO 17025 / ISO 17034 | Mineral Oil | 40.0 mg KOH/g | 50 g      |
| TBN40/3  | ISO 17025 / ISO 17034 | Mineral Oil | 40.0 mg KOH/g | 3 x 50 g  |
| TBN70    | ISO 17025 / ISO 17034 | Mineral Oil | 70.0 mg KOH/g | 50 g      |
| TBN70/3  | ISO 17025 / ISO 17034 | Mineral Oil | 70.0 mg KOH/g | 3 x 50 g  |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# BENZENE CONTENT

Benzene Content Certified Reference Material (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes applicable for the test method ISO 22854, EN 238, ASTM D 6839, ASTM D 4053 for the determination of Benzene Content in engine fuels.

| Part No.   | Certification | Matrix   | Nominal Value | Pack Size |
|------------|---------------|----------|---------------|-----------|
| CRM-BEGA01 | Round Robin   | Gasoline | 0.75 % Volume | 250 mL    |

# CLOUD POINT

ISO 17034 Cloud Point Certified Reference Material (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used to determine cloud point, applicable for the test method IP 219, or test methods ASTM D2500, ISO 3015, or other applicable methods.



| Part No.   | Certification | Matrix | Nominal Value | Pack Size |
|------------|---------------|--------|---------------|-----------|
| CRM-CPGO01 | ISO 17034     | Diesel | -5.0 °C       | 250 mL    |

# COLD FILTER PLUGGING POINT (CFPP)

ISO 17034 Cold Filter Plugging Point (CFPP) Certified Reference Material (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used to determine cold filter plugging point, applicable for the test method IP 309, or test methods ASTM D6371, ISO 116, where applicable.



| Part No.   | Certification | Matrix | Nominal Value | Pack Size |
|------------|---------------|--------|---------------|-----------|
| CRM-CFGO01 | ISO 17034     | Diesel | -10.0 °C      | 250 mL    |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# COLOUR REFERENCE STANDARDS

These colour reference standards are ideal for routine calibration of colour measuring instruments, verification of test data and 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 for many products. They are supplied with full traceability to the internationally recognised standards of ISO/IEC 17025 & ISO 17034, accredited by UKAS (ASTM, Gardner & Saybolt Colour) or the ISO 9001 quality system (AOCS-Tintometer, Lovibond RYBN & Pt-Co Colour) under the control of Tintometer's ISO 9001 Quality Management System.

## AOCS Tintometer Colour Reference Standards

AOCS-Tintometer colour reference standards are manufactured and certified by The Tintometer Limited. These colour standards have been manufactured and tested under the control of Tintometer's ISO 9001 Quality Management System. AOCS-Tintometer colour scale used as a standard by oil and fats refineries, rendering plants, and companies trading or associated with the American edible oils and fats industry. These colour reference standards intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used to determine colour, applicable for methods AOCS Cc 13b-45, AOCS Cc 8d-55, AOCS Cc 13j-97, or other applicable test methods.

| Part No. | Certification | Matrix           | Nominal Value   | Pack Size |
|----------|---------------|------------------|-----------------|-----------|
| 134240   | ISO 9001      | Aqueous Solution | 0.4R 2.0Y (5¼") | 500 mL    |
| 134250   | ISO 9001      | Aqueous Solution | 1.6R 9.0Y (5¼") | 500 mL    |
| 134260   | ISO 9001      | Aqueous Solution | 1.9R 12Y (5¼")  | 500 mL    |
| 134270   | ISO 9001      | Aqueous Solution | 2.5R 20Y (5¼")  | 500 mL    |
| 134280   | ISO 9001      | Aqueous Solution | 3.0R 28Y (5¼")  | 500 mL    |

## ASTM (ASTM D6045, D1500) Colour Reference Standards

ISO/IEC 17025 and ISO 17034 ASTM Colour Reference Standard intended to be used for calibration and / or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for colour measuring instruments. Applicable for test method ASTM D6045, ASTM D1500, or other applicable test methods.



The manufacturing, testing and certification of ARO's ASTM Colour Reference Standards has been performed in accordance with ARO's accreditation to ISO 17034, UKAS CAB No. 27393 and Tintometer's accreditation to ISO/IEC 17025, UKAS CAB No. 0630.

| Part No. | Certification         | Matrix      | Nominal Value | Pack Size |
|----------|-----------------------|-------------|---------------|-----------|
| 134290   | ISO 17025 / ISO 17034 | Mineral Oil | < 0.5         | 500 mL    |
| 134000   | ISO 17025 / ISO 17034 | Mineral Oil | 1             | 500 mL    |
| 134010   | ISO 17025 / ISO 17034 | Mineral Oil | 3             | 500 mL    |
| 134020   | ISO 17025 / ISO 17034 | Mineral Oil | 5             | 500 mL    |
| 134030   | ISO 17025 / ISO 17034 | Mineral Oil | 7             | 500 mL    |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# GARDNER (ASTM D1544, D6166) COLOUR REFERENCE STANDARDS

Gardner (ASTM D1544, D6166) Colour Reference Standards are for routine calibration of colour measuring instruments and verification of test data. These colour standards are dual UKAS certified to the International Standards ISO/IEC 17025 and ISO 17034. Gardner (ASTM D1544, D6166) Colour Reference Standards are typically used in, but not limited to, the analysis of drying oils, varnishes, fatty acids, polymerized fatty acids, and resin solutions.



The manufacturing, testing and certification of ARO's ASTM Colour Reference Standards has been performed in accordance with ARO's accreditation to ISO 17034, UKAS CAB No. 27393 and Tintometer's accreditation to ISO/IEC 17025, UKAS CAB No. 0630.

| Part No. | Certification         | Matrix      | Nominal Value | Pack Size |
|----------|-----------------------|-------------|---------------|-----------|
| 134200   | ISO 17025 / ISO 17034 | Mineral Oil | 2             | 500 mL    |
| 134210   | ISO 17025 / ISO 17034 | Mineral Oil | 5             | 500 mL    |
| 134220   | ISO 17025 / ISO 17034 | Mineral Oil | 8             | 500 mL    |

## Lovibond RYBN Colour Reference Standards

Lovibond RYBN colour reference standards are manufactured and certified by The Tintometer Limited. These colour standards have been manufactured and tested under the control of Tintometer's ISO 9001 Quality Management System.

The Lovibond® Scale is based on 84 calibrated glass colour standards of different densities of magenta (red), yellow, blue and neutral, graduating from desaturated to fully saturated. Sample colours are matched by a suitable combination of the three primary colours together with neutral filters, resulting in a set of Lovibond® RYBN units that define the colour.

Since several million combinations are available, it is possible to match the colour of almost any sample; it is particularly popular for measuring the colour of oils and fats, chemicals, pharmaceuticals and syrups. Typically used in, but not limited to, AOCS Cc 13e, AOCS Cc 13j-97, ISO 15305, ISO 27608, MS 252 : Part 16, MS 817 : Part 12, IP17 Method A.

| Part No. | Certification | Matrix           | Nominal Value          | Pack Size |
|----------|---------------|------------------|------------------------|-----------|
| 134080   | ISO 9001      | Aqueous Solution | 0.8R 2.0Y 0.1N (5¼")   | 500 mL    |
| 134090   | ISO 9001      | Aqueous Solution | 1.4R 4.0Y 0.5N (5¼")   | 500 mL    |
| 134100   | ISO 9001      | Aqueous Solution | 2.0R 7.0Y 0.5N (5¼")   | 500 mL    |
| 134110   | ISO 9001      | Aqueous Solution | 2.1R 11.0Y 0.5N (5¼")  | 500 mL    |
| 134120   | ISO 9001      | Aqueous Solution | 2.5R 14.0Y 0.7N (5¼")  | 500 mL    |
| 134130   | ISO 9001      | Aqueous Solution | 3.1R 22.0Y 0.85N (5¼") | 500 mL    |
| 134230   | ISO 9001      | Aqueous Solution | 3.4R 30.0Y 0.9N (5¼")  | 500 mL    |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# SAYBOLT (ASTM D6045, D156) COLOUR REFERENCE STANDARDS

Saybolt (ASTM D6045, D156) Colour Reference Standards are for routine calibration of colour measuring instruments and verification of test data. These colour standards are dual UKAS certified to the International Standards ISO/IEC 17025 and ISO 17034.



Saybolt (ASTM D6045, D156) Colour Reference Standards are typically used in, but not limited to, the analysis of a wide variety of petroleum products such as undyed motor and aviation gasoline, aviation turbine fuels, naphtha's, kerosine, pharmaceutical white oils, diesel fuel oils, heating oils, and lubricating oils by the automatic tristimulus method.

The manufacturing, testing and certification of ARO's Saybolt Colour Reference Standards has been performed in accordance with ARO's accreditation to ISO 17034, UKAS CAB No. 27393 and Tintometer's accreditation to ISO/IEC 17025, UKAS CAB No. 0630.

| Part No. | Certification         | Matrix      | Nominal Value | Pack Size |
|----------|-----------------------|-------------|---------------|-----------|
| 134040   | ISO 17025 / ISO 17034 | Mineral Oil | -10           | 500 mL    |
| 134050   | ISO 17025 / ISO 17034 | Mineral Oil | 0             | 500 mL    |
| 134060   | ISO 17025 / ISO 17034 | Mineral Oil | +12           | 500 mL    |
| 134070   | ISO 17025 / ISO 17034 | Mineral Oil | +25           | 500 mL    |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# DENSITY (DIGITAL DENSITY METER)

ISO/IEC 17025 and ISO 17034 Density Certified Reference Material (CRM) intended to be used for calibration or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for the test method ASTM D4052, or test methods IP 365, ISO 12185, or other applicable methods.



ARO's Density Certified Reference Material has been characterised at 15 °C in accordance with ASTM D4052, or equivalent methodology. Manufacture and characterisation has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

| Part No.   | Certification         | Matrix    | Nominal Value | Pack Size |
|------------|-----------------------|-----------|---------------|-----------|
| CRM-DEGA01 | ISO 17025 / ISO 17034 | Gasoline  | 0.7496 g/mL   | 250 mL    |
| CRM-DELU01 | ISO 17025 / ISO 17034 | Lubricant | 0.8650 g/mL   | 250 mL    |
| CRM-DEKR01 | ISO 17025 / ISO 17034 | Jet Fuel  | 0.8014 g/mL   | 250 mL    |
| CRM-DEGO01 | ISO 17025 / ISO 17034 | Diesel    | 0.8288 g/mL   | 250 mL    |

# DISTILLATION

ISO 17034 Distillation Certified Reference Material (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used to determine distillation, applicable for the test method ASTM D86, or test methods IP 123, ISO 3405, or other applicable methods.



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ARO's Distillation Certified Reference Materials have been characterised in accordance with ASTM D86 or equivalent test method. Manufacturing, testing and certification has been performed in accordance with ARO's accreditation to ISO 17034, UKAS CAB No. 27393.

| Part No.   | Certification | Matrix   | Nominal Value    | Pack Size |
|------------|---------------|----------|------------------|-----------|
| CRM-DIGA01 | ISO 17034     | Gasoline | 34 °C to 159 °C  | 250 mL    |
| CRM-DIKR01 | ISO 17034     | Jet Fuel | 148 °C to 259 °C | 250 mL    |
| CRM-DIGO01 | ISO 17034     | Diesel   | 169 °C to 355 °C | 250 mL    |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# FLASH POINT

## CERTIFIED REFERENCE MATERIALS

The flash point of a liquid is defined as the lowest temperature, corrected to a barometric pressure of 101.3 kPa, at which a substance generates enough vapor to form a vapor/air mixture that can be ignited with an ignition source. Flash point data is used for assessing the safety of liquid fuels, liquid lubricants, and their mixtures, for example, shipping and safety regulations to define “flammable” materials. Flash point data can also indicate the possible presence of highly volatile and flammable material in a relatively non-volatile or non-flammable material.

There are different international methods such as ASTM, IP, ISO, etc. for determining flash point. Test methods recommend flash point testing equipment is verified using Certified Reference Materials (CRM) and on-going performance monitoring is performed using Secondary Working Standards (SWS). We offer a range of certified reference materials and secondary working standards for use with flash point testing equipment.

### Abel Closed-Cup Flash Point

ISO 17034 Abel Closed-Cup Flash Point Certified Reference Materials intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used to determine flash point, applicable for the test method IP 170, or test methods ISO 13736, and BS 2000 : Part 170, where applicable.



ARO's Abel Closed-Cup Flash Point Certified Reference Materials have been characterised in accordance with IP 170 or equivalent test method. Manufacturing, testing and certification of Abel flash point has been performed in accordance with ARO's accreditation to ISO 17034, UKAS CAB No. 27393.

| Part No.   | Certification | Matrix            | Nominal Value | Pack Size |
|------------|---------------|-------------------|---------------|-----------|
| CRM-ABKR01 | ISO 17034     | Jet Aviation Fuel | 40 °C         | 250 mL    |

### Cleveland Open Cup (COC) Flash Point

ISO/IEC 17025 and ISO 17034 Cleveland Open Cup (COC) Flash Point Certified Reference Materials intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used to determine flash point, applicable for the test method ASTM D92, or test methods IP 36, ISO 2592, or other applicable test methods.



Our Cleveland Open Cup (COC) Flash Point Certified Reference Materials have been characterised in accordance with ASTM D92 or equivalent test method. Manufacturing, testing and certification for Cleveland Open Cup (COC) Flash Point has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

| Part No.   | Certification         | Matrix      | Nominal Value | Pack Size |
|------------|-----------------------|-------------|---------------|-----------|
| CRM-COC10  | ISO 17025 / ISO 17034 | Mineral Oil | 85 °C         | 3 x 80 mL |
| CRM-COC20  | ISO 17025 / ISO 17034 | Mineral Oil | 125 °C        | 3 x 80 mL |
| CRM-COC30  | ISO 17025 / ISO 17034 | Mineral Oil | 160 °C        | 3 x 80 mL |
| CRM-COC40  | ISO 17025 / ISO 17034 | Mineral Oil | 250 °C        | 3 x 80 mL |
| CRM-FCLU01 | ISO 17025 / ISO 17034 | Lubricant   | 260 °C        | 250 mL    |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# PENSKY-MARTENS CLOSED CUP (PMCC) FLASH POINT

ISO/IEC 17025 and ISO 17034 Pensky–Martens Closed Cup (PMCC) Flash Point Certified Reference Materials intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used to determine flash point, applicable for the test method ASTM D93, or test methods IP 34, ISO 2719, or other applicable test methods.



Our Pensky–Martens Closed Cup (PMCC) Flash Point Certified Reference Materials have been characterised in accordance with ASTM D93 Standard Test Method for Flash Point by Pensky Martens Closed Cup Tester, Procedure A, or equivalent test method. Manufacturing, testing and certification for Pensky–Martens Closed Cup (PMCC) Flash Point has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393

| Part No.   | Certification         | Matrix      | Nominal Value | Pack Size |
|------------|-----------------------|-------------|---------------|-----------|
| CRM-PMGO01 | ISO 17025 / ISO 17034 | Diesel      | 60 °C         | 250 mL    |
| CRM-PMCC10 | ISO 17025 / ISO 17034 | Mineral Oil | 80 °C         | 3 x 80 mL |
| CRM-PMCC20 | ISO 17025 / ISO 17034 | Mineral Oil | 105 °C        | 3 x 80 mL |
| CRM-PMCC30 | ISO 17025 / ISO 17034 | Mineral Oil | 140 °C        | 3 x 80 mL |
| CRM-PMCC40 | ISO 17025 / ISO 17034 | Mineral Oil | 230 °C        | 3 x 80 mL |

We can also supply Pensky–Martens Closed Cup (PMCC) Flash Point Certified Reference Material that have been characterised in accordance with ASTM D93 Standard Test Method for Flash Point by Pensky Martens Closed Cup Tester, Procedure B.

| Part No.   | Certification         | Matrix    | Nominal Value | Pack Size |
|------------|-----------------------|-----------|---------------|-----------|
| CRM-PMLU01 | ISO 17025 / ISO 17034 | Lubricant | 100 °C        | 250 mL    |

## Tag Closed Cup Flash Point

Tag Closed Cup Flash Point Certified Reference Materials (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used to determine flash point, applicable for the test method ASTM D56

| Part No.   | Certification | Matrix            | Nominal Value | Pack Size |
|------------|---------------|-------------------|---------------|-----------|
| CRM-TAKR01 | ISO 17034     | Jet Aviation Fuel | 40 °C         | 250 mL    |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# FLASH POINT

## SECONDARY WORKING STANDARDS

Secondary Working Standards (SWS) are flash point standards manufactured and certified by ARO Scientific according to ISO/IEC 17025 and ISO 17034. These standards are designed to be used on a frequent basis in order to verify test equipment functionality on an on-going basis. These are secondary working standards, which have been characterised in accordance with ASTM D92 or ASTM D93 (Procedure A). They are suitable for monitoring the equipment between annual verification checks as specified in ASTM D92 or ASTM D93.



### Cleveland Open Cup (COC) Flash Point

ISO/IEC 17025 / ISO 17034 certified Cleveland Open Cup (COC) Flash Point Standards are tested and certified in accordance with ASTM D92 'Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester.'

ARO's Secondary Working Cleveland Open Cup (COC) Flash Point Standards have been characterised in accordance with ASTM D92. Manufacturing, testing and certification has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.

| Part No.  | Certification         | Matrix      | Nominal Value | Pack Size |
|-----------|-----------------------|-------------|---------------|-----------|
| SWS-COC10 | ISO 17025 / ISO 17034 | Mineral Oil | 85 °C         | 3 x 80 mL |
| SWS-COC20 | ISO 17025 / ISO 17034 | Mineral Oil | 125 °C        | 3 x 80 mL |
| SWS-COC30 | ISO 17025 / ISO 17034 | Mineral Oil | 160 °C        | 3 x 80 mL |
| SWS-COC40 | ISO 17025 / ISO 17034 | Mineral Oil | 200 °C        | 3 x 80 mL |
| SWS-COC50 | ISO 17025 / ISO 17034 | Mineral Oil | 280 °C        | 3 x 80 mL |

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### Pensky-Martens Closed Cup (PMCC) Flash Point

ISO/IEC 17025 / ISO 17034 certified Pensky-Martens Closed Cup (PMCC) Flash Point Standards are tested and certified in accordance with ASTM D93 'Standard Test Method for Flash Point by Pensky Martens Closed Cup Tester - Procedure A'.

ARO's Secondary Working Pensky-Martens Closed Cup (PMCC) Flash Point Standards have been characterised in accordance with ASTM D93, Procedure A. Manufacturing, testing and certification has been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393.



| Part No.   | Certification         | Matrix      | Nominal Value | Pack Size |
|------------|-----------------------|-------------|---------------|-----------|
| SWS-PMCC10 | ISO 17025 / ISO 17034 | Diesel      | 60 °C         | 3 x 80 mL |
| SWS-PMCC20 | ISO 17025 / ISO 17034 | Mineral Oil | 80 °C         | 3 x 80 mL |
| SWS-PMCC30 | ISO 17025 / ISO 17034 | Mineral Oil | 105 °C        | 3 x 80 mL |
| SWS-PMCC40 | ISO 17025 / ISO 17034 | Mineral Oil | 140 °C        | 3 x 80 mL |
| SWS-PMCC50 | ISO 17025 / ISO 17034 | Mineral Oil | 190 °C        | 3 x 80 mL |
| SWS-PMCC60 | ISO 17025 / ISO 17034 | Mineral Oil | 230 °C        | 3 x 80 mL |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# FREEZING POINT

ISO 17034 Freezing Point of Aviation Fuels Certified Reference Materials (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used to determine freezing point, applicable for the test method ASTM D2386, or test methods IP 16, ISO 3013, or other applicable methods.



ARO's Freezing Point of Aviation Fuels Certified Reference Materials have been characterised in accordance with ASTM D2386 or equivalent test method. Manufacturing, testing and certification has been performed in accordance with ARO's accreditation to ISO 17034, UKAS CAB No. 27393.

| Part No.   | Certification | Matrix   | Nominal Value | Pack Size |
|------------|---------------|----------|---------------|-----------|
| CRM-FRKR01 | ISO 17034     | Jet Fuel | -56 °C        | 250 mL    |

# MOTOR OCTANE NUMBER (MON)

Motor Octane Number (MON) Certified Reference Material (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used in testing petroleum and derivative products for Octane Number (Motor Method) ASTM D2700.

| Part No.   | Certification | Matrix   | Nominal Value | Pack Size |
|------------|---------------|----------|---------------|-----------|
| CRM-OMGA02 | Round Robin   | Gasoline | 86.3          | 1000 mL   |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# POUR POINT

ISO 17034 Pour Point Certified Reference Materials (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used to determine point point, applicable for the test method IP 15, or test methods ASTM D97, ISO 3016, or other applicable methods.



ARO's Pour Point Certified Reference Materials have been characterised in accordance with IP 15 or equivalent test method. Manufacturing, testing and certification has been performed in accordance with ARO's accreditation to ISO 17034, UKAS CAB No. 27393.

| Part No.   | Certification | Matrix    | Nominal Value | Pack Size |
|------------|---------------|-----------|---------------|-----------|
| CRM-PPLU01 | ISO 17034     | Lubricant | -14.4 °C      | 250 mL    |
| CRM-PPGO01 | ISO 17034     | Diesel    | -24.8 °C      | 250 mL    |

# RESEARCH OCTANE NUMBER (RON)

Research Octane Number (RON) Certified Reference Material (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used in testing petroleum and derivative products for Octane Number (Research Method) ASTM D2699.

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| Part No.   | Certification | Matrix   | Pack Size |
|------------|---------------|----------|-----------|
| CRM-ORGA02 | Round Robin   | Gasoline | 1000 mL   |

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# SALT IN CRUDE

High quality analytical Salt in Crude Materials Oil, Refined Neutral Oil and Salts, Mixed Solution (Diluted) manufactured in accordance with procedures compliant with ISO 17034.

| Part No. | Certification  | Matrix               | Nominal Value | Pack Size |
|----------|----------------|----------------------|---------------|-----------|
| SIC-MCS  | Not Accredited | Salt, Mixed (Dilute) | N/A           | 250 mL    |
| SIC-OIL  | Not Accredited | Refined Neutral Oil  | N/A           | 250 mL    |

# SMOKE POINT

ISO 17034 Smoke Point Certified Reference Materials (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used to determine smoke point, applicable for the test method ASTM D1322, or test methods IP 598, IP 57, ISO 3014, or other applicable methods.



ARO's Smoke Point Certified Reference Materials have been characterised in accordance with ASTM D1322 or equivalent test method. Manufacturing, testing and certification has been performed in accordance with ARO's accreditation to ISO 17034, UKAS CAB No. 27393.

| Part No.   | Certification | Matrix   | Nominal Value | Pack Size |
|------------|---------------|----------|---------------|-----------|
| CRM-SPKR01 | ISO 17034     | Jet Fuel | 23.7 mm       | 250 mL    |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# SULFUR STANDARDS

These ISO/IEC 17025 and ISO 17034 Sulfur standards intended to be used for calibration or verification of measuring equipment, method validation, method verification, or other quality control processes applicable for analysing sulfur content in various petroleum products using X-ray fluorescence spectrometry (XRF) or other applicable techniques. These standards have been characterised by primary Gravimetric preparation. Manufacture and characterisation have been performed in accordance with ARO's accreditation to ISO/IEC 17025 and ISO 17034, UKAS CAB No. 27393. They are supplied with full traceability to National Physical Laboratory (NPL), National Institute of Standards and Technology (NIST) and other recognised National Metrology Institutes (NMIs).

## Diesel (Synthetic) Sulfur Standards

ISO/IEC 17025 and ISO 17034 Sulfur Certified Reference Material (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes applicable for analysing sulfur content in petroleum products, typically used in, but not limited to test methods ASTM D2622, ASTM D4294, ASTM D7039, ASTM D7212, ASTM D7220, IP 336, IP 496, IP 497, ISO 8754, or other applicable test methods.



| Part No.  | Certification         | Matrix             | Nominal Value | Pack Size |
|-----------|-----------------------|--------------------|---------------|-----------|
| SUSDBLANK | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 0 mg/kg       | 100 mL    |
| SUSD00005 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 5 mg/kg       | 100 mL    |
| SUSD00010 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 10 mg/kg      | 100 mL    |
| SUSD00025 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 25 mg/kg      | 100 mL    |
| SUSD00050 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 50 mg/kg      | 100 mL    |
| SUSF00100 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 100 mg/kg     | 100 mL    |
| SUSD00250 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 250 mg/kg     | 100 mL    |
| SUSD00300 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 300 mg/kg     | 100 mL    |
| SUSD00500 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 500 mg/kg     | 100 mL    |
| SUSD00700 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 700 mg/kg     | 100 mL    |
| SUSD00750 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 750 mg/kg     | 100 mL    |
| SUSD01000 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 1000 mg/kg    | 100 mL    |
| SUSD02500 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 2500 mg/kg    | 100 mL    |
| SUSD03000 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 3000 mg/kg    | 100 mL    |
| SUSD05000 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 5000 mg/kg    | 100 mL    |
| SUSD10000 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 10000 mg/kg   | 100 mL    |
| SUSD15000 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 15000 mg/kg   | 100 mL    |
| SUSD20000 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 20000 mg/kg   | 100 mL    |
| SUSD30000 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 30000 mg/kg   | 100 mL    |
| SUSD40000 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 40000 mg/kg   | 100 mL    |
| SUSD50000 | ISO 17025 / ISO 17034 | Diesel (Synthetic) | 50000 mg/kg   | 100 mL    |

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# SULFUR STANDARDS

## Heavy Mineral Oil Sulfur Standards

ISO/IEC 17025 and ISO 17034 Sulfur Certified Reference Material (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes applicable for analysing sulfur content in petroleum products, typically used in, but not limited to test methods ASTM D2622, ASTM D4294, ASTM D7039, ASTM D7212, ASTM D7220, IP 336, IP 496, IP 497, ISO 8754, or other applicable test methods.



| Part No.  | Certification         | Matrix            | Nominal Value | Pack Size |
|-----------|-----------------------|-------------------|---------------|-----------|
| SUHMBLANK | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 0 mg/kg       | 100 mL    |
| SUHM00005 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 5 mg/kg       | 100 mL    |
| SUHM00010 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 10 mg/kg      | 100 mL    |
| SUHM00025 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 25 mg/kg      | 100 mL    |
| SUHM00050 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 50 mg/kg      | 100 mL    |
| SUHM00100 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 100 mg/kg     | 100 mL    |
| SUHM00250 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 250 mg/kg     | 100 mL    |
| SUHM00300 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 300 mg/kg     | 100 mL    |
| SUHM00500 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 500 mg/kg     | 100 mL    |
| SUHM00700 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 700 mg/kg     | 100 mL    |
| SUHM00750 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 750 mg/kg     | 100 mL    |
| SUHM01000 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 1000 mg/kg    | 100 mL    |
| SUHM02500 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 2500 mg/kg    | 100 mL    |
| SUHM03000 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 3000 mg/kg    | 100 mL    |
| SUHM05000 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 5000 mg/kg    | 100 mL    |
| SUHM10000 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 10000 mg/kg   | 100 mL    |
| SUHM15000 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 15000 mg/kg   | 100 mL    |
| SUHM20000 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 20000 mg/kg   | 100 mL    |
| SUHM30000 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 30000 mg/kg   | 100 mL    |
| SUHM40000 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 40000 mg/kg   | 100 mL    |
| SUHM50000 | ISO 17025 / ISO 17034 | Heavy Mineral Oil | 50000 mg/kg   | 100 mL    |

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# SULFUR STANDARDS

## Kerosene Sulfur Standards

ISO/IEC 17025 and ISO 17034 Sulfur Certified Reference Material (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes applicable for analysing sulfur content in petroleum products, typically used in, but not limited to test methods ASTM D2622, ASTM D4294, ASTM D7039, ASTM D7212, ASTM D7220, IP 336, IP 496, IP 497, ISO 8754, or other applicable test methods.



| Part No.  | Certification         | Matrix   | Nominal Value | Pack Size |
|-----------|-----------------------|----------|---------------|-----------|
| SUKRBLANK | ISO 17025 / ISO 17034 | Kerosene | 0 mg/kg       | 100 mL    |
| SUKR00010 | ISO 17025 / ISO 17034 | Kerosene | 10 mg/kg      | 100 mL    |
| SUKR00050 | ISO 17025 / ISO 17034 | Kerosene | 50 mg/kg      | 100 mL    |
| SUKR00100 | ISO 17025 / ISO 17034 | Kerosene | 100 mg/kg     | 100 mL    |
| SUKR00200 | ISO 17025 / ISO 17034 | Kerosene | 200 mg/kg     | 100 mL    |
| SUKR00300 | ISO 17025 / ISO 17034 | Kerosene | 300 mg/kg     | 100 mL    |
| SUKR00400 | ISO 17025 / ISO 17034 | Kerosene | 400 mg/kg     | 100 mL    |
| SUKR00500 | ISO 17025 / ISO 17034 | Kerosene | 500 mg/kg     | 100 mL    |
| SUKR00750 | ISO 17025 / ISO 17034 | Kerosene | 750 mg/kg     | 100 mL    |
| SUKR01000 | ISO 17025 / ISO 17034 | Kerosene | 1000 mg/kg    | 100 mL    |
| SUKR01500 | ISO 17025 / ISO 17034 | Kerosene | 1500 mg/kg    | 100 mL    |
| SUKR02000 | ISO 17025 / ISO 17034 | Kerosene | 2000 mg/kg    | 100 mL    |
| SUKR03000 | ISO 17025 / ISO 17034 | Kerosene | 3000 mg/kg    | 100 mL    |

# VAPOUR PRESSURE (REID)

Reid Vapour Pressure Certified Reference Material (CRM) intended to be used for verification of measuring equipment, method validation, method verification, or other quality control processes used in testing petroleum and derivative products for Reid Vapour Pressure, typically used in ATM D5191.

| Part No.   | Certification | Matrix   | Nominal Value | Pack Size |
|------------|---------------|----------|---------------|-----------|
| CRM-VPGA01 | Round Robin   | Gasoline | 74.0 kPa      | 250 mL    |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# FLUORESCENT INDICATOR ADSORPTION (FIA) REAGENTS

High quality analytical Fluorescent Indicator Adsorption (FIA) reagents manufactured and compliant for use in ASTM D1319 the Standard Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption.

## Silica Gels

Silica Gels manufactured to conform to the specifications shown in Table 2 of ASTM D1319.

| Part No.        | Certification  | Method     | Pack Size |
|-----------------|----------------|------------|-----------|
| LBR-214477-50G  | Not Accredited | ASTM D1319 | 50 g      |
| LBR-214477-250G | Not Accredited | ASTM D1319 | 250 g     |
| LBR-214477-1KGB | Not Accredited | ASTM D1319 | 1 kg      |

## Fluorescent Indicator Dyed Gel

Fluorescent Indicator Dyed Gel – standard dyed gel, consisting of a mixture of recrystallized Petrol Red AB4 and purified portions of the olefin and aromatic dyes obtained by chromatographic adsorption, following a definite, uniform procedure, and deposited on silica gel manufactured to conform to the specifications of ASTM D1319.

| Part No.   | Certification  | Method     | Pack Size |
|------------|----------------|------------|-----------|
| LBR-250-DG | Not Accredited | ASTM D1319 | 40 g      |

Nominal values are for reference only. Please refer to our website, customer services or appointed distributors for certified values of current batches.



# LITHIUM CHLORIDE ELECTROLYTE

High quality analytical 2M Lithium Chloride Electrolyte, Electrode Filling Solution manufactured and compliant for use in ASTM D664 / IP 177, the Standard Test Method for Acid Number of Petroleum products by Potentiometric Titration.

| Part No.     | Certification  | Method             | Pack Size  |
|--------------|----------------|--------------------|------------|
| LBR-LCL30/3  | Not Accredited | ASTM D664 / IP 177 | 3 x 30 mL  |
| LBR-LCL30/5  | Not Accredited | ASTM D664 / IP 177 | 5 x 30 mL  |
| LBR-LCL30/10 | Not Accredited | ASTM D664 / IP 177 | 10 x 30 mL |

# SYNTHETIC SEA WATER

High quality analytical reagents manufactured and 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.

| Part No.     | Certification  | Method            | Pack Size  |
|--------------|----------------|-------------------|------------|
| LBR-SSWS-30  | Not Accredited | ASTM D655/ IP 135 | 10 x 30 mL |
| LBR-SSWS-300 | Not Accredited | ASTM D655/ IP 135 | 300 mL     |
| LBR-SSWS-500 | Not Accredited | ASTM D655/ IP 135 | 500 mL     |
| LBR-SSWS-5L  | Not Accredited | ASTM D655/ IP 135 | 5 L        |

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CERTIFIED REFERENCE MATERIALS & STANDARDS



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