

Agence Nord:

ZA Object'Ifs Sud - Lot A3
6 Allée Emilie du Châtelet
14123 Ifs
tél : 02.31.34.50.74
fax : 02.31.34.55.17

**Agence Est:**

Parc Club des Tanneries
2 Rue de la Faisanderie
67380 Lingolsheim
tél : 03.88.04.01.81
fax : 03.68.93.01.52

Agence Sud:

Bât Le Venango. 392 Rue Jean Dausset
AGROPARC - BP11575
84916 Avignon Cédex 9
tél : 04.90.27.17.95 fax : 04.90.27.17.52

www.deltalabo.fr
info@deltalabo.fr

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Smoke Point Reference Fuel Blends (RFBs)

Paragon Scientific manufacture a range of Smoke Point Reference Fuel Blends, which are suitable for the calibration and / or verification of analytical instrumentation for automatic or manual measurement of smoke point using ASTM D1322, IP 598 or other applicable methods. Each Reference Fuel Blend is dual certified to **ISO 17025 & ISO 17034** under our UKAS accreditation.



Importance of Measuring Smoke Point:

Smoke point is an important parameter in assessing the quality of petroleum products, such as aviation turbine fuels and kerosene. The smoke point of a material is the maximum height in millimetres at the fuel will burn without smoking, tested under standard conditions.

The smoke point is related to the hydrocarbon type composition of fuels. This provides an indication of the relative smoke producing properties of the fuel in a diffusion flame. Generally, the more aromatic the fuel, the smokier the flame. A high smoke point indicates a fuel of low smoke producing tendency.

Smoke point analysis can be carried out with either automatic or manual methodology. Regular calibration and / or verification of smoke point analysers using our Reference Fuel Blends (RFBs) helps ensure that laboratories comply with quality control standards and produce reliable results with maximum accuracy.

Paragon Scientific Limited

6 Prenton Way, North Cheshire Trading Estate, Prenton, Wirral, CH43 3DU. United Kingdom
Tel: +44 (0)151 649 9955 Fax: +44 (0)151 649 9977 Email: sales@paragon-sci.com

www.paragon-sci.com

Smoke Point Reference Fuel Blends

Paragon Scientific's Smoke Point Reference Fuel Blends are ideal for the calibration and/or verification of analytical instrumentation for automatic or manual measurement of smoke point using ASTM D1322, IP 598 or other applicable methods.

The range of Smoke Point Reference Fuel Blends corresponds to listed smoke point values as per Table 1 in ASTM D1322 and IP 598. Paragon can also offer a set kit for use with automatic apparatus, which includes x1 of each reference blend.

Paragon's Smoke Point Reference Fuel Blends are certified in strict accordance to ISO 17025 & ISO 17034 under our UKAS accreditation, guaranteeing the highest level of accreditation and providing the most credible data available worldwide.

Each product provides traceability of measurement to recognised national standards, and to units of measurement realised at the National Physics Laboratory (NPL), National Institute of Standards & Technology (NIST) or other recognised national standards laboratories, so end users can be confident the results are metrologically traceable.

Key Benefits:

- Suitable for either automatic or manual measurements of smoke point using ASTM D1322, IP 598 or other applicable methods.
- Certified in strict accordance to ISO 17025 & ISO 17034 under our UKAS accreditation
- Highest level of accreditation guarantee, providing the most credible data available worldwide
- Fully traceable to international standards and low levels of uncertainty achieves maximum accuracy of data.
- Supplied in 100 mL volume, tamper-evident packaging, providing assurance of sample integrity.
- 12 month shelf life

Smoke Point Reference Fuel Blends

Part Number	Description
SPRF-1	Smoke Point Reference Fuel Blend 1 for 14.7 mm (40/60 %v/v)
SPRF-2	Smoke Point Reference Fuel Blend 2 for 20.2 mm (25/75 %v/v)
SPRF-3	Smoke Point Reference Fuel Blend 3 for 22.7 mm (20/80 %v/v)
SPRF-4	Smoke Point Reference Fuel Blend 4 for 25.8 mm (15/85 %v/v)
SPRF-5	Smoke Point Reference Fuel Blend 5 for 30.2 mm (10/90 %v/v)
SPRF-6	Smoke Point Reference Fuel Blend 6 for 35.4 mm (5/95 %v/v)
SPRF-7	Smoke Point Reference Fuel Blend 7 for 42.8 mm (0/100 %v/v)
SPRF-KIT-7	Smoke Point Reference Fuel Blend Kit, 1 x 7 (Blends 1 – 7) for 14.7 mm, 20.2 mm, 22.7 mm, 25.8 mm, 30.2 mm, 35.4 mm and 42.8 mm.

Why choose Paragon?

All of Paragon's products have been manufactured to the highest certification integrity coupled with premium quality. Every certificate provides low levels of uncertainty of measurement and is fully traceable to international methodology. With an excellent reputation across multiple industries, Paragon provides excellent customer service, technical support and prompt delivery to all its customers.

Paragon Scientific has always sought to certify its products to the highest metrological level it can achieve, this has been one of its key objectives since the company was founded and has set them apart from other reference material producers.

Integrity and Quality has and always will be at the forefront for Paragon Scientific, which is evidenced by their accreditations to ISO 17025 and ISO 17034 under UKAS and the long-standing relationships with end-users and the worldwide partners they work with. Integrity and Quality are embedded across all their business activities and provides the framework in how they approach new ideas and operate.

For further information, please feel free to contact our team at sales@paragon-sci.com or contact your local representative.

