

Product Information

Reference Materials – Residual and Extreme Pressure Oil

Elemental Microanalysis Ltd reference materials include an ever-expanding series of residual and extreme pressure oil reference materials to complement our consumables range for elemental analysis.

Developed to support users of Leco® and Eltra® analysers, these quality assured reference materials add confidence to measurements critical to industry control.



Residual Oil, Sulphur Range


% Sulphur	Description	Pack	Part Number
0.13	Residual Oil Sulphur Range 0.1%	100ml	B2360
0.15	Residual Oil Sulphur Range 0.15%	100ml	B2358
0.21	Residual Oil Sulphur Range 0.2%	100ml	B2361
0.30	Residual Oil Sulphur Range 0.3%	100ml	B2362
0.35	Residual Oil Sulphur Range 0.35%	100ml	B2359
0.42	Residual Oil Sulphur Range 0.4%	100ml	B2363
0.48	Residual Oil Sulphur Range 0.5%	100ml	B2364
0.61	Residual Oil Sulphur Range 0.6%	100ml	B2365
0.70	Residual Oil Sulphur Range 0.7%	100ml	B2366
0.82	Residual Oil Sulphur Range 0.8%	100ml	B2367
0.90	Residual Oil Sulphur Range 0.9%	100ml	B2368
1.02	Residual Oil Sulphur Range 1%	100ml	B2369
1.49	Residual Oil Sulphur Range 1.5%	100ml	B2370
1.98	Residual Oil Sulphur Range 2%	100ml	B2371
2.50	Residual Oil Sulphur Range 2.5%	100ml	B2372
2.92	Residual Oil Sulphur Range 3%	100ml	B2373
3.46	Residual Oil Sulphur Range 3.5%	100ml	B2374
4.00	Residual Oil Sulphur Range 4%	100ml	B2375
4.50	Residual Oil Sulphur Range 4.5%	100ml	B2376
5.00	Residual Oil High Sulphur Range 5%	100ml	B2334
5.78	Residual Oil High Sulphur Range 6%	100ml	B2333
9.86	Residual Oil High Sulphur Range 10%	100ml	B2332
20.00	Residual Oil High Sulphur Range 20%	100ml	B2331
30.00	Residual Oil High Sulphur Range 30%	100ml	B2330

Product Information

Reference Materials – Residual and Extreme Pressure Oil cont'd

Extreme Pressure Oil, Sulphur Range

% Sulphur	Description	Pack	Part Number
2.00	Extreme Pressure Oil Sulphur Range 2%	100ml	B2336
3.30	Extreme Pressure Oil Sulphur Range 3%	100ml	B2337
4.19	Extreme Pressure Oil Sulphur Range 4%	100ml	B2338



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Certificate of Analysis
Part No. B2371
Residual Oil Standard

Certificate Number 815918
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Weight Percent Sulphur = 1.98
Expanded Uncertainty = ±0.08
(k=2, @ 95% confidence limit, n=28)

Method used for analysis: ASTM D 4294-16, ARI-078

NMI Standard(s) used: NIST 1622d
ALPHA – AR2815-815808, AR1622-622111

The intended use of this standard is for the calibration and or verification of sulphur analysis by XRF or other valid testing methods. This standard was produced gravimetrically using high purity materials, with balances calibrated and checked by precision NIST traceable weights. The above ASTM test method and NMI references listed were used for testing. The uncertainty value represents the 95% confidence limit (k=2) derived from analysis, and possible errors in weighing. The sample size used for testing was placed into a removable sample cup, equipped with replaceable X-ray plastic film and providing a sample depth of at least 4mm and a diameter of at least 10mm. Normal test procedures should be employed when using this standard. This includes the reproducibility and repeatability uncertainty for the method you wish to employ. The material used in production of this standard was sampled in accordance with ARI 041. The samples used for round robin testing were selected in accordance with ARI 031. The above values relate only to the material used to produce this standard.

Before use, the contents of the bottle should be mixed by vigorous shaking. Any exposure to air and light should be kept to a minimum. Keep sealed and store upright under normal laboratory conditions. This bottle consists of 100ml to be used as per the test method. Sample size and minimum sample size may be contingent upon your test method or instrument manufacturer recommendations. While unable to determine a definite shelf life, unopened and stored properly, this reference should be reverified every 20 years from the date of certification. Once opened, this certificate is valid for two years.

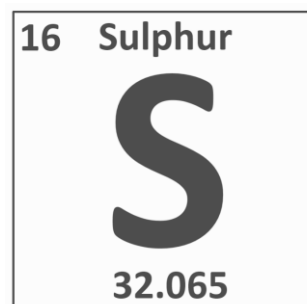
Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Elemental Microanalysis Ltd be liable for incidental or consequential damages.

This is a Certified Reference Material (working standard), and is traceable to the above-mentioned standards. For good laboratory practice it is recommended that all standards be verified as fit for purpose prior to use.

This CRM is valid for two years from the date of opening

Elemental Microanalysis Limited

November 12, 2018



These products offer the same high quality and value for money that is typical of Elemental Microanalysis' entire product range. Available to order from our [ISO 9001](#) factory online, by email, telephone or fax. Elemental Microanalysis offers extensive knowledge of analysis, over 40 years of experience and a worldwide reputation for excellence.



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All Elemental Products are guaranteed to be of high quality and suitable for use in the stated application.



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