



Abbe 5 Refractometer

FOR ACADEMIA, RESEARCH AND GENERAL LABORATORY APPLICATIONS

The Abbe 5 is an affordable refractometer ideally suited for use where a wide measurement range of Refractive Index is required, such as in smaller contract laboratories or applications where sample throughput is relatively low.

The instrument is also perfect for practical demonstrations and experiments in chemistry and physics laboratories of schools, colleges and universities.

The Abbe 5 features both Refractive Index and Brix scales, with the prism temperature monitored electronically and displayed on the clear digital display. Connections for a waterbath provide optional prism temperature control, facilitating accurate readings to 4 decimal places RI (1 decimal Brix). Dispersion measurements of solids materials such as glass, contact lenses and fibre optics may be made in accordance with standard practice.

The Abbe 5 refractometer is supplied with a glass calibration plate, contact liquid, and instruction manual and is packed in a hard flight case for easy transportation and storage. Limited warranty is 24-months.

- Dual Scale
- Refractive Index & 0-95 Brix
- Dispersion Measurement
- Optional Light Source



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Specifications

Scale	0-95 °Brix / 1.30 - 1.70 RI
Resolution	0.1 / 0.0005
Operating temperature	5-70 °C
Temperature resolution	0.1 °C
Ambient temperature	5-40 °C
Power supply	Battery (1 x 1.5V AA alkaline). Approx. life 12 months continual use
Weight	3.5 kg (gross) / 2.55 kg (net)
Dimensions (packed):	27 x 37 x 18 cm

Code	Description
44-501	Abbe 5 refractometer supplied with glass calibration plate, contact liquid and instruction manual packed in a hard flight case for easy storage
44-520	Abbe 5 LED light source for mounting on instrument base. UK/EU/US plug. 110-230 V~, 50/60Hz
44-590	Spare prism box assembly
72-200	Traceable calibration plate (silica: 1.45839 ± 0.0001 RI at 20 °C)
10-43	Contact liquid (monobromonaphthalene) for test plates and solid samples with an RI up to 1.65 RI. Quantity 6ml
10-61	Contact liquid (methyl iodide) for test plates and solid samples with an RI up to 1.74 RI. Quantity 6ml



The *Abbe Refractometer* derives its name from the 19th Century physicist and father of modern optical technology, Ernst Abbe (1840-1905). He was the co-founder of the Carl Zeiss Jena Optical Company and Schott Glasswerk.

Abbe designed an instrument for measuring dispersion which became the precursor for a refractometer - the *Abbe Refractometer*.



Bellingham + Stanley, a Xylem brand, operates an Integrated Management System complying with ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018.



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