

C10 Abbe Refractometer

High Precision Benchtop Unit

The C10 Abbe Refractometer is a high precision benchtop instrument measuring the Refractive Index (nD) of liquids, glass, plastic and film.

With an oversized, easy to read scale and Prism Temperature Control feature, the C10 delivers Brix and Refractive Index Scales and dispersion measurements with high precision.

Made of easy to clean, durable metal housing, the C10 is a long-lasting tool perfect for Education, Food, Beverage and Industrial Laboratories.



C10

C10 Abbe Refractometer Specifications

Dispersion (nF-nC)	Dial Readings w/Conversion Charts
Ambient Temperature	41 to 95°F / 5 to 35°C 32 to 158°F / 0 to 70°C
Measuring Temperature	0 to 70°C
Optical Wavelength	589 nm
Prism	Optical Glass
Prism Housing	SUS316 Stainless Steel
Circulator Nozzles	2 for Primary Prism, 2 for Secondary Prism; accepts 3/8" ID tubing
Dimensions (L x W x H in/mm)	5.5 x 3.5 x 9.4 / 140 x 90 x 240
Weight	9.9 lb / 4.5 kg
Supplied With	2 x LR44, 1.5V Batteries Glass Standard (1.5163 nD) Bromonaphthalene Contact Liquid (4 mL bottle) Scale Adjustment Tool
Warranty	1-Year Parts and Labor

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Item No.	Scale	Range	Resolution	Accuracy
C10	Brix	0.0 to 95.0%	0.25% Brix	±0.15% Brix
	Refractive Index	1.3000 to 1.7200 nD	0.0005 nD	±0.00025 nD

Refractometer Standards, Letter of NIST Traceability Certification

Refractometer Standards

Item No.	Type	Brix Value (68°F / 20°C)	R.I. Value (68°F / 20°C)	Bottle Volume
45000-OS025	Oil	60.00%	1.4420 nD	7.4 mL / 0.25 oz
45000-OS200	Water	0.00%	1.33297 nD	7.4 mL / 0.25 oz
45000-OS001	Contact Solution	0.00%	1.65 nD	7.4 mL / 0.25 oz