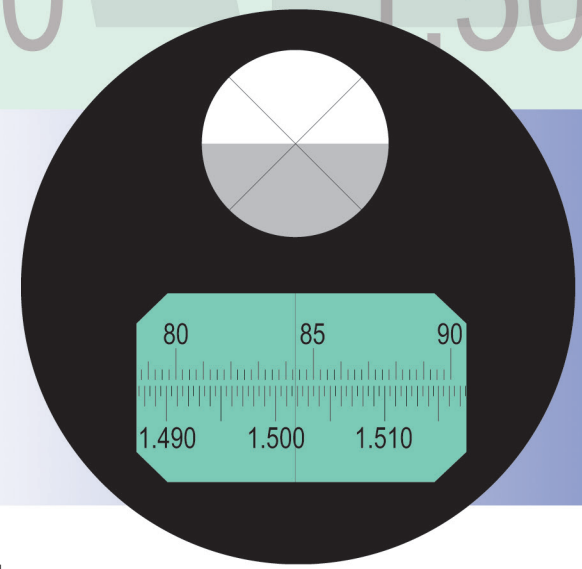
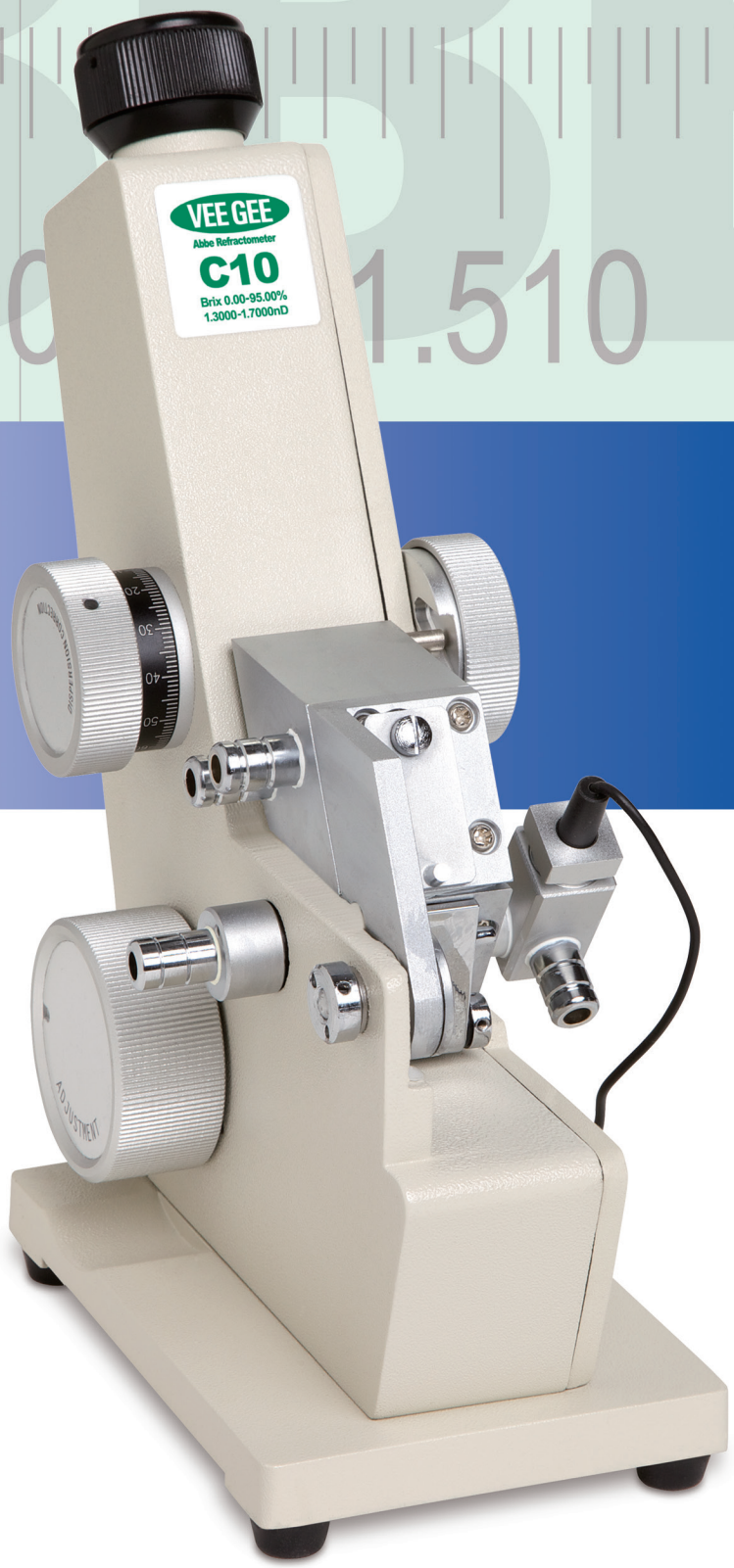
novatech INTERNATIONAL

C10

Abbe Refractometer





Features

- Benchtop Abbe Precision
- Liquid & Solid Testing
- Brix & Refractive Index Scales
- Dispersion Measurements
- Connects To External Circulator For Prism Temperature Control
- 0-70°C Prism Temperature Range (w/ Digital Display)
- Rugged, Stainless Steel Prism Housing
- NEW LED/Sodium Light Source Kit Available

VEE GEE®
Analytical Instruments

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VEE GEE®

C10 Abbe Refractometer

The VEE GEE Model C10 Abbe Refractometer is an excellent instrument for the Refractive Index (nD) analysis of liquids, glass, plastic, and film.

Operation consists of placing a sample on the prism; while looking through the eyepiece, the control knob is turned until the shadowline is centered in the crosshairs. The reading is taken where the vertical line crosses the scale. Calibrates with water.

Primary features consist of an oversized, easy-to-read scale; digital analysis and readout of prism temperature; Refractive Index (nD) & Brix scales; primary & secondary prisms; color compensator dial; large measurment dial focusable eyepiece.

For prism temperature control, the C10 comes equipped with 2 circulator nozzles for the primary prism and 2 for the secondary prism; which enables this refractometer to be connected to a circulating bath to accurately regulate prism temperature. The prism temperature is displayed on the LCD display at the base of the refractometer. The effective temperature range is 0 to +70°C.

Technical Specifications

		C10
Cat. No.		C10
Measuring Range	RI	1.3000-1.7200 nD
	Brix	0.0-95.0%
Resolution	RI	0.0005
	Brix	0.25%
Accuracy	RI	±0.00025
	Brix	±0.15%
Dispersion (nF-nC)		Dial Readings w/ Conversion Charts
Ambient Temperature		+5 to +35°C
Measuring Temperature		0 to 70°C
Optical Wavelength		589nm
Prism		Optical Glass
Prism Housing		SUS316 Stainless Steel
Circulator Nozzles		2 For Primary Prism, 2 For Secondary Prism
Dimensions		140 (L) x 90 (W) x 240 (H) mm
Weight		2.3kg
Supplied With:		Digital Thermometer (1 ea.), Glass Standard, 1.5163 nD (1 ea.), Contact Liquid, Bromonaphthalene, 4mL Bottle (1 ea.), Scale Adjustment Tool

Cat # 44000-LEDNA kit contains:
(1200LED1) Control Unit , two standard white LED light guides & (1200LEDNA1) one Sodium Filter.

Transparent or translucent film samples can be measured with the use of a glass standard (aids in the illumination of the sample), contact liquid (adheres the sample to the glass standard and to the primary prism), and an external sodium light source package, 44000-LEDNA (sold separately).

Note: The refractive index of the sample must be lower than that of the contact liquid and the glass standard. The included bromonaphthalene contact liquid has a refractive index (nD) value of 1.6300. The included glass standard has a refractive index (nD) value of 1.5163.

Transparent or translucent glass samples can be measured with the use of a contact liquid (adheres the sample to the primary prism) and an auxiliary sodium light source package, 44000-LEDNA (sold separately).

Note: The refractive index of the sample must be lower than that of the contact liquid. The included bromonaphthalene contact liquid has a refractive index (nD) value of 1.6300.

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