



Testing Department

REFRACTOMETER

Abbe-3L, Bausch and Lomb



Virtual Prototyping Services
<https://SimAltum.com>
807-700-5504



This is a commercial refractometer to measure the refractive index of fluids and flat solids plates. It consists of (a) a refracting prism system (b) an appropriate scale, (c) a compensation system consisting of Amici prisms which permit the use of white light, and (d) a telescope with crosshairs which permit the borderline of total reflection to be observed and set precisely. It can also be connected to water bath to control the sample temperature. A single eyepiece is used to observe both the total reflection field and the scale.

CAPACITY

- Measurement refractive index and thickness of thin films between about 0.0001 and 0.5 mm (0.0004 and 0.002 in)

SPECIAL FEATURES

- Wavelength of 589.3 nm (sodium D line)
- Accuracy $n_D = \pm 0.00025$
- 12 3/4" high in the closed position,
- The base is 11" x 5 1/4" in its greatest dimension.



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