

Refractometers

Analog and digital

HIGHLIGHTS

- Portable, accurate and fast
- Wide range of applications
- Easy to use

Refractometers are used for the identification of substances and concentration measurement of fluids. Because the refractive index (R.I.) of a solution is proportional to the concentration it is easy to identify the substance or to measure the purity and concentrations of solutions

The Euromex refractometers are calibrated at 20° Celsius. Most refractometers are equipped with Automatic Temperature Compensation (ATC). Euromex offers analog and digital hand refractometers, tabletop abbe refractometers and gemological refractometers



CONCENTRATIONS OF SUGAR IN MARMALADES, FRUITS, HONEY, SYRUPS, WINE AND MONITORING OF OIL EMULSIONS

MODELS	Range	Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
RF.6190	0 - 90 Brix	0.2	3 scales: 0-42 / 42-71 / 71-90 Brix		•		•	
RF.6510	0 - 10 Brix	0.1		•	•		•	
RF.6520	0 - 20 Brix	0.1		•	•		•	
RF.6532	0 - 32 Brix	0.2		•	•		•	
RF.6562	28 - 62 Brix	0.2		•	•		•	
RF.6580	0 - 80 Brix	0.5		•	•		•	
RF.6582	45 - 82 Brix	0.5		•	•		•	
RF.6592	58 - 92 Brix	0.2		•	•		•	
RF.6635	0 - 150 °Oe 0 - 35 Brix 0 - 27 °KMW 0 - 22 % 0 - 37 CNM	1 0.2 0.2 0.2 0.5	Oechsle units Sugar concentration Babo units % volume	•	•		•	
RD.6735	0 - 150 °Oe 0 - 35 Brix 0 - 25 °KMW 0 - 22 %	1 0.1 0.1 0.1		•	•			•
RD.6645	0 - 45 Brix 1.33 - 1.41 R.I.	0.1 0.0003		•	•			•
RD.6666	0 - 80 Brix 1.33 - 1.51 R.I.	0.5 0.0005		•	•			•
RD.6667	58 - 92 Brix 1.43 - 1.52 R.I.	0.2 0.0003		•	•			•

HONEY

MODELS	Range	Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
RF.6642	13 - 25 %	0.1	% moisture in honey	•	•		•	
RF.6644	58 - 92 Brix 38 - 43 °Be 12 - 27 %	0.5 0.5 1	% moisture in honey	•	•		•	

CONCENTRATION OF SUGAR/ALCOHOL %

MODEL	Range	Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
RF.6627	0 - 25 % 0 - 40 Brix 0 - 20 Baume	0.2 0.2 0.2	% volume	•	•		•	

SALINITY AND CONCENTRATION OF SUGAR

MODELS	Range	Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
RF.6610	0 - 100 ‰ 0 - 10 Brix 1.00 - 1.07 R.I.	1 0.1 0.005		•	•		•	
RF.6628	0 - 28 %	0.2		•	•		•	
RD.6728	0 - 28 % 0 - 45 Brix 1.33 - 1.41 R.I.	0.1 0.1 0.0003	% NaCl Only for sugar/salt	•	•			•

BATTERY ACID/COOLANT

MODELS	Range	Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
RF.6650	1.10 - 1.40 sg -50 / 0 °C -50 / 0 °C -40 / 0 °C	0.01 5 5 10	Battery fluids Ethylene glycol G13 Propylene glycol G11/12 windshield washer fluid	•	•		•	
RD.6730	1.0 - 1.50 sg -50 / 0 °C -50 / 0 °C -40 / 0 °C	0.01 0.5 0.5 0.5	Battery fluids Ethylene glycol G13 Propylene glycol G11/12 windshield washer fluid	•	•			•

CLINICAL APPLICATIONS PROTEINS

MODELS	Range	Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
RF.6612	0 - 12 g/dl 1.00 - 1.05 sg 1.333 - 1.360 R.I.	0.2 0.002 0.0003	Proteins in serum Urine specific gravity	•	•		•	
RF.6614	2 - 14 g/dl 1.00 - 1.06 sg 1.00 - 1.06 sg	0.1 0.001 0.001	Proteins in serum Urine specific gravity (dog) Urine specific gravity (cat)	•	•		•	
RD.6712	0 - 12 g/dl 1.00 - 1.05 sg 1.33 - 1.39 R.I.	0.1 0.001 0.0001	Proteins in serum Urine specific gravity	•	•			•
RD.6714	0 - 14 g/d 0 - 14g/d 1.00 - 1.06 sg 1.00 - 1.06 sg 1.33 - 1.39 R.I.	0.1 0.1 0.001 0.001 0.0001	Proteins in serum (dog) Proteins in serum (cat) Urine specific gravity (dog) Urine specific gravity (cat)	•	•			•

IDENTIFICATION OF PRECIOUS STONES (SEE NEXT PAGE)

MODEL	Range	Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
RF.6381	1.30 - 1.81 R.I.	0.01	With filter 590 nm	•		•	•	

SUBSTANCE IDENTIFICATION (SEE NEXT PAGE)

MODEL	Range	Accuracy	Remarks	ATC	Handheld model	Table model	Analog	Digital
98.490	0-95 Brix 1.300-1.700 R.I.	0.01 0.0002	without light source	•		•	•	



RF.6381 ●

Gemological refractometer

GEMSTONES

- Gemological refractometers are key instruments for research in gemological laboratories
- This table refractometer has been designed specifically for determination of precious stones based on refraction index measurement. Contains a 590 nm filter for generation of monochromatic light

APPLICATION

Identification of precious stones

ACCESSORIES AND SPARE PARTS

- RF.5295** Test slide 78.8 Brix for calibration of RF.5190
- RF.5384** 5 ml immersion nD 1.79 liquid for RF.5381
- LE.5209** 20 W 12 V cold light source with single fiber light conductor
- SL.5208** Spare 20 W 12 V halogen bulb
- RF.5384** 5 ml immersion nD 1.79 liquid

Abbe laboratory refractometer

SUBSTANCE IDENTIFICATION

- The Abbe laboratory refractometer is a bench-top instrument for high-precision measurements of an index of refraction
- Abbe refractometers are more accurate than hand refractometers
- Capable of measuring all kinds of concentrations and identifying several types of substances
- The instrument is equipped with a built-in thermometer and water connection to control fluid temperatures
- Equipped with a Brix and a refraction index scale and supplied with a test plate
- The use of a cold light source like the LE.5209 is recommended for this type of refractometer
- Delivered with carrying case, digital thermometer 0-50° Celsius, calibration plate and adjusting tool

APPLICATION

Suitable for determination of the refractive index of solid samples, such as glass, plastics, and polymer films

ACCESSORIES AND SPARE PARTS

- 98.492** Digital thermometer 0-50° C (for Abbe refractometer 98.490)
- 98.496** Calibration slide nD 1.5163 (for Abbe refractometer 98.490)
- RF.5384** 5 ml immersion nD 1.79 liquid
- LE.5209** Euromex cold light illuminator 20 W with light conductor

PACKAGE CONTENT

Delivered with carrying case, digital thermometer 0- 50° Celsius, calibration plate, adjusting tool and with 0.5 ml refraction liquid



98.490 ●