L LABORATORY
P PROCESS
S SOFTWARE
A AUTOMATION

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Saccharoflex® 2020

Reflectance Colorimeter

Our colorimeter for automatic color grading of crystal sugar according to ICUMSA standards

SPECIFICATIONS	Saccharoflex® 2020
Measuring scales	Color grading of white crystal sugar acc. ICUMSA
Measuring range	0 to 19.99 color units (CU) or derivative range
Resolution	0.01 (CU)
Precision	± 0.01 (CU)
Reproducibility	± 0.01 (CU)
Wavelengths	495 and 620 nm, tolerance 1%, mean waveband 20 nm
Measuring time	≤ 1 sec
Calibration	Standards "0" to "6" of the Brunswick color type or ceramic standard
Light source	Tungsten halogen lamp 12 V, 20 W, base G4
Display	LCD, one line, 16 characters, back illuminated
Conformity	ICUMSA method GS 2-13 (1998)
Interfaces	RS 232 C
Dimensions	220 x 260 x 480 mm (w x d x h)
Weight	approx. 8,3 kg
Highlights	Precise and fast color type indication of white sugar crystals; reflectance factors at 495 and 620 nm are measured; measurement is done by use of the proven Taylor's law and an integrated sphere; great sample surface guarantees reliable measuring results; the instrument allows to measure also brown sugars due to the up to 19.99 CU extended measuring range; easy calibration by Brunswick color standards or longtime stable ceramic standards; the adjustable working voltage provides a high service life of the lighting unit.

Reflectance-meter applications

The reflectance-metering is an analytical method for non-destructive determination of the color grading of white crystal sugar.

Applications often used

- Determination of the color grading
- Quality control
- Scientific analysis

Typical applications of the model

- Sugar industry: For automatic color grading of white crystal sugars acc. to ICUMSA

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