

**L** LABORATORY

**P** PROCESS

**S** SOFTWARE

**A** AUTOMATION



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# Saccharoflex<sup>®</sup> 2020

## Reflectance Colorimeter

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



## SPECIFICATIONS

## Saccharoflex® 2020

<b>Measuring scales</b>	Color grading of white crystal sugar acc. ICUMSA
<b>Measuring range</b>	0 to 19.99 color units (CU) or derivative range
<b>Resolution</b>	0.01 (CU)
<b>Precision</b>	± 0.01 (CU)
<b>Reproducibility</b>	± 0.01 (CU)
<b>Wavelengths</b>	495 and 620 nm, tolerance 1%, mean waveband 20 nm
<b>Measuring time</b>	≤ 1 sec
<b>Calibration</b>	Standards "0" to "6" of the Brunswick color type or ceramic standard
<b>Light source</b>	Tungsten halogen lamp 12 V, 20 W, base G4
<b>Display</b>	LCD, one line, 16 characters, back illuminated
<b>Conformity</b>	ICUMSA method GS 2-13 (1998)
<b>Interfaces</b>	RS 232 C
<b>Dimensions</b>	220 x 260 x 480 mm (w x d x h)
<b>Weight</b>	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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