VIBROCHROM









Do you need a user friendly color and whiteness measuring instrument for your production control? Are you looking for a reliable instrument which despite its simplicity can be used for a wide range of materials and products?

VIBROCHROM 400 was developed out of Lenzing AGs long time experience in measuring whiteness and color difference. Therefore operating has been reduced to basic steps, which are simple and easily understandable. In this way casual mistakes.

are avoided and the results are accurate and reliable, as required for production control in the everyday routines in the laboratory. VIBROCHROM 400 is a flexible instrument for reliable and quick determination of whiteness, color difference and fluorescence, which can be used for staple fibers and filament yarns as well as for fabrics, paper, granules, paints and powder etc. The software offers flexible evaluation of your the results, with a wide range of formulas and parameters at your disposition.





VIBROCHROM



Scope:

User friendly, flexible instrument for the easy determination of color difference, whiteness, yellowness and fluorescence of different materials (fiber, filament yarn, granules, powder, etc.)

Method:

VIBROCHROM 400 is a tristimulus colorimeter with dual beam principle, which measures according to ISO 2469 and DIN 5033. The sample is illuminated by flashlights and the reflection is measured and evaluated.

Results*:

Are calculated by the computer and given as to the info box below.

Illumination:

CIE standard source D65 flash light (without ultraviolet radiant energy). Optionally available: A second flash light emitting ultra violet light for determination of fluorescence

Calibration:

*Results:

With black (velvet coated cup) and white (Teflon or ceramic) working standards for 0 - 100 %. The calibration is referenced to absolute values based on BaSo₄ powder.

Repeatability:

± 0.2 % with white standard

Specimen dimensions:

Any width

Max. depth: 130 mm Max. height: 115 mm Measuring aperture: 30 mm Ø

Interface:

RS 232

Power supply: 230/115 VAC ± 10% 50/60 Hz, 50 W

Dimensions:

 Height:
 460 mm

 Width:
 320 mm

 Depth:
 380 mm

 Weight:
 25 kg

Optionally available:

- TAPPI value
- · OPC UA interface

	results.			
	Indexes x, y, x	z red	Whiteness	According to different standards and formulas such as Berger, Ganz,
	У	green		Hunter, Hunter2, Stensby, Taube
	Z	blue		
	Remission un	der visual light Remission of red color range	Tappi (optional)	Diffuse brightness of pulp (d/0° at a wavelength of 457 nm)
	Ry	Remission of green color range	G	Yellowness
	Rz	Remission of blue color range		
	Remission under ultra violet light only (< 380 nm) dfRx Remission of red color range		Al	Dyeability index (according to Lenzing standard)
	dfRy	Remission of green color range	L*, a*, b*, ∆E	definition of color according to
	dfRz	Remission of blue color range		CIELAB diagram; L: lightness;
Remission under visual and ultra		der visual and ultra violet light		a: green-red axis; b: blue-yellow
	fRx	emission of red color range		axis; ΔE : color difference
	fRy	Remission of green color range		
	fRz	Remission of blue color range	L*, u*, v*	Definition of color according to
	Df 4fD-			CIELUV diagram
	Df, dfRz	Fluorescence (df=Berger _{WITH} UV - Berger _{WITHOUT} UV	C, H	Chroma, Hue
	X, Y, Z	standard color values acc. to CIE	x, y	x=X(X+Y+Z); $y=Y/(X+Y+Z)$

Technical data and pictures are subject to change.





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Remission of blue color range

