Whiteness Meter - Digital Whiteness Tester for Powder and Paper - 0-100 Range - d/0 Geometry

Model **MSWHT-VSWISS** | Brand **Master Science**





The Master Science Whiteness Meter measures the whiteness of powders and flat materials by diffuse reflection. It is used for flour, starch, rice flour, salt, textiles, chemical fibre, plastics, porcelain clay, talc, white cement, paint, ceramics, enamel, paper and pulp.

KEY HIGHLIGHTS

- Suitable for the production floor
- Fast checks
- Consistent numbers
- Little maintenance
- Easy calibration

AT A GLANCE

0 to 100
MEASUREMENT RANGE

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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Overview

The optics follow the d/0 geometry, diffuse illumination with perpendicular viewing, under simulated D65 light. A reading takes two seconds, and a light absorber removes the effect of specular reflection.

Key Benefits

Suitable for the production floor
the Master Science Whiteness Meter has a fully sealed design.

Fast checks
two seconds per measurement.

Consistent numbers
repeatability within 0.1.

Little maintenance
light source rated for 100,000 hours.

Easy calibration
one-key zero and digital white-board calibration.

For full colour measurement, see the Master Science portable colorimeter.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSWHT-VSWISS
SKU	MSWHT-VSWISS
Brand	Master Science
Model Number	MSWHT-VSWISS
SKU	MSWHT-VSWISS
Measurement Range	**0 to 100**
Measurement Method	Reflection
Illumination Geometry	d/0
Integrating Sphere Diameter	Φ120 mm
Measuring Aperture	Φ20 mm
Repeatability	≤0.1
Indication Drift	≤0.1
Zero Drift	≤0.1
Indication Error	≤0.5
Measurement Time	2 seconds
Working Environment	0 to 40 °C; <80% RH
Electricity	AC 220 V ±22 V, 50 Hz
Light Source Life	Up to 100,000 hours
Display	LED

DIMENSIONS & WEIGHT	
Gross Weight	9.5 kg
Shipping Dimensions	320 × 400 × 480 mm

HOW THE MASTER SCIENCE WHITENESS METER SUPPORTS QUALITY CONTROL	
Visual grading that varies by person	numeric whiteness from 0 to 100.
Dust entering the optics on site	sealed construction.
Gloss distorting readings	light absorber removes specular light.
Frequent lamp replacement	100,000-hour light source.

Applications

The Master Science Whiteness Meter is used for

Flour, starch, rice flour and salt Printing, dyeing and chemical fibre Plastics, paint and white cement Porcelain clay, talc, ceramics and enamel Paper and pulp

Optics

- Diffuse illumination, perpendicular viewing (d/0)
- Simulated D65 illuminant
- Light absorber against specular reflection

Control

- Microcomputer control with touch keys
- Embedded operating system
- Fast digital algorithm
- Calibration parameters saved automatically

Design

- Fully sealed housing
- Energy-saving long-life light source
- Automatic calibration