Solvent Rub Resistance Tester

BGD 521-S

Product Description

The BGD 521-S Solvent Rub Resistance Tester is designed to evaluate the solvent rub resistance of coatings. The BGD 521-S moves a cloth saturated with a suitable solvent, commonly methyl ethyl ketone (MEK), back and forth across a coating under a fixed load to assess its solvent resistance.

The rubbing speed and number of cycles are adjustable, and the instrument automatically counts the completed cycles. One forward stroke and one backward stroke constitute one double rub. Depending on the applicable procedure, the coating is assessed after a specified number of double rubs or when a defined endpoint is reached.



Standards

- ASTM D4752 — Standard Practice for Measuring MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub
- ASTM D5402 — Standard Practice for Assessing the Solvent Resistance of Organic Coatings Using Solvent Rubs
- NCCA Technical Bulletin 4.2.11 — Evaluation of Solvent Resistance by Solvent Rub

ASTM D4752 covers the MEK resistance of ethyl silicate (inorganic), whereas D5402 covers the solvent resistance of organic coatings. NCCA Technical Bulletin 4.2.11 relates to solvent resistance testing in the coil-coating industry.

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Technical Specification

- Intelligent microcontroller-based operation with stepless speed adjustment and automatic counting
- Touchscreen interface displaying rubbing speed, completed cycles, and preset test cycles
- Wide input voltage range: 110–220 V AC, 50/60 Hz
- Freely adjustable settings retained for future use
- Easy-to-clean glass work surface

Rubbing Weight	1000±10 g
Rubbing Speed	5-95/min (stepless speed regulation)
Rubbing Head Diameter	14±0.5 mm
Rubbing Head Contact Area	approx. 1.5cm²
Stroke Length	120mm (can be customized < 120mm)
Preset Cycle Count	0~9,999
Power Supply	AC 110V~220V; 50Hz~60Hz
Overall Dimensions	350mmx375mmx305mm (LxWxH)
Weight	16.7 kg



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Main Technical Parameters

Ordering information: BGD 521-S Solvent Rub Resistance Tester

Disclaimer

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