ADJUSTABLE MICROMETER FILM APPLICATORS
LD3570, LD3571, LD3572, LD3573

PRODUCT DESCRIPTION

These Applicators are adjustable micrometers film applicators ergonomically designed to facilitate fast, accurate draw downs. Ideally suited to research projects where small variations in film thickness need to be evaluated accurately.

BUSINESS

Coating Laboratories, Paint Production

STANDARDS

ASTM D 823

FEATURES

• No springs to break, rust or get clogged
• Detachable blades for easy cleaning
• Enhanced accuracy
• Ergonomic design facilitates fast, accurate draw downs
• Replacement blades are easy to install & calibrate

SCOPE OF SUPPLY

• A finely machined SS knife-blade fitted into slots in the end section allows vertical adjustment of the blade.
• Two finely-made micrometer barrels that can be easily set so that gate clearances can be adjusted up to 6.35 mm it has a graduation of 0.01mm per division and an accuracy of +-0.005mm. Thimbles & barrels of the micrometers are dull chrome.
• A special clear anodized aluminium frame with 2 end sections that provide a large paint well. The end sections also serve as ergonomic operator hand grips when drawing down wet films.
• Rare earth magnets hold the SS blade firmly in place allowing for quick, easy detach & cleaning. (The 2” applicator does not utilize the rare earth magnets and only uses one non rotating spindle micrometer that is fixed to the blade via two set screws.)

ORDERING INFORMATION

LD3570 - Adjustable Micrometer Film Applicator, width 75mm
LD3571 - Adjustable Micrometer Film Applicator, width 100mm
LD3572 - Adjustable Micrometer Film Applicator, width 200mm
LD3573 - Adjustable Micrometer Film Applicator, width 150mm

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USE

Calibration
Before use, check the zero settings of the micrometers. Place applicator on a polished granite block or alternatively plate-glass of suitable size. Set micrometers at zero. When the applicator is placed between the observer and a bright light, the blade should touch the glass from end to end without the side plate being elevated. The zero point should check within 12μm. If it does not, and settings are required, simply set the micrometers to zero, loosen the mike clamp set screws, press the knife-blade down on the glass plate, press down the micrometers until barrels are seated against the blade and then tighten the clamps. Cautionary Note: Make sure that there is no foreign matter such as iron fillings adhering to the blade magnets as this might result in improper applicator calibration.

Measurement
Place applicator at upper end of test panel. Pour coating directly in front of the knife-blade. Draw applicator toward lower end of panel at an approximate uniform rate of 250-300mm per second. Clean applicator immediately after use and thoroughly dry the blade. **Caution: Do not wet or submerge micrometer heads.**

SPECIAL CARE

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over.
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Always keep the instrument in its case when not in use.

DISCLAIMER

The right of technical modifications is reserved.

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