



TQC Sheen Defelsko Calibration Standards for Coating Thickness Gauges

Durable and color-coded, TQC Sheen Defelsko Plastic Shims provide a fast, repeatable way to verify the accuracy of coating thickness gauges and protect probes during use. Available in certified and non-certified options, these shims support a wide range of calibration, verification, and measurement needs in the lab, on the line, or out in the field.

Consistent and Repeatable Performance

Plastic shims—also known as foils—are essential accessories for simulating coating thicknesses during practice measurements, calibration, and routine checks. Whether you're working on ferrous or non-ferrous substrates, TQC Sheen Defelsko shims offer an easy way to verify gauge performance or protect the probe from rough, hot, or tacky surfaces.

Each shim is clearly labeled in both Metric and Imperial units and color-coded for easy identification. With options available for certified, traceable accuracy or day-to-day operational checks, these tools enhance your measurement confidence.

Easy to Use and Versatile

Compatible with all Type 2 electronic magnetic, eddy-current, and ultrasonic coating thickness gauges, plastic shims help maintain instrument accuracy and prolong probe life. Their flexible plastic construction allows for use on a variety of surfaces, while their compact size (approx. 3 x 8 cm / 1 x 3 in) makes them ideal for field kits or bench use.

Choose between two convenient sets:

Non-Certified Plastic Shim Set (Set of 5):

Cost-effective and perfect for training or quick checks. Includes shims with ±5% to ±20% tolerances: 25 µm (1 mil), 50 µm (2 mil), 125 µm (5 mil), 250 µm (10 mil), and 500 µm (20 mil)

Certified Plastic Shim Set (Set of 8):

Designed for compliance and precision. Each shim is serialized and accurate to ±2 µm (±0.08 mil), with a certificate traceable to NIST or PTB. Includes thicknesses from 25 µm (1 mil) up to 1500 µm (60 mil)

How to Use and Maintain Your Shims

To use a plastic shim, place it between the probe and the substrate. It simulates a coating of known thickness, allowing you to verify or adjust your gauge as needed. Certified shims are ideal for calibration against recognized standards, while non-certified options are suitable for routine verification.

Shims should be kept clean and flat to preserve accuracy. Certified shims come with a Certificate of Calibration traceable to NIST or PTB and offer ±2 µm accuracy for high-precision environments.

Technical Specification:

Thickness Range:	25 µm to 1500 µm (1 mil to 60 mils)
Shim Dimensions:	3 x 8 cm (1 x 3 inches)
Material:	Polyester plastic
Measurement Accuracy (Certified):	±2 µm (±0.08 mil)
Measurement Accuracy (Non-Certified):	±5% to ±20%
Certification:	Traceable to NIST or PTB (Certified models only)
Unit Labeling:	Metric (µm) and Imperial (mils)
Packaging (Certified):	Individual protective pouch per shim
Packaging (Non-Certified):	Set of 5 in cardboard sleeve
Compatible Instruments:	Type 2 electronic magnetic, eddy-current, and ultrasonic coating thickness gauges
Incompatible Instruments:	Magnetic pull-off gauges

Features & Benefits:

- Certified and non-certified options available to suit different accuracy and compliance needs
- Enables quick and reliable verification of coating thickness gauges
- Provides probe protection on abrasive, tacky, or high-temperature surfaces
- Supports one-point and two-point calibration adjustments for accurate readings
- Ideal for training and performing practice measurements with non-certified shims
- Clearly labeled in both microns and mils for easy identification
- Stackable design allows custom thickness simulation
- Standard 3 x 8 cm size compatible with most gauge probes and substrates
- Certified shims include a calibration certificate traceable to NIST or PTB
- Same-day shipping available when ordered before 2PM EST

Ordering Information:

Catalog Number	Article Description
LD5400	Certified Plastic Shim Set (Set of 5)
LD5417	Certified Plastic Shim Set (Set of 8)

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

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