

# Plastic Shims

Certified Plastic Shims (foils) provide an economical alternative to coated metal plates. They have a reduced accuracy of  $\pm 2 \mu\text{m}$  ( $\pm 0.08 \text{ mil}$ ). A coating thickness gage measures shim thickness when this shim is placed over a smooth metal surface (**zero plate**).

Non-Certified Plastic Shims (foils) provide a quick operational check of the instrument and they allow the user to perform practice measurements when placed over metal.

Alternatively, they can be placed over an uncoated metal substrate. They are not suitable for use with magnetic pull-off gages.

Shims overview:

- Simulate a coating over a particular substrate material or shape. Gage performance can be conveniently verified on a regular basis as required by some international test methods
- For use with all Type 2, electronic coating thickness gages
- Protects the probe from damage or premature wear when placed over hot or abrasive surfaces
- Can be placed on top of soft or tacky coating films to obtain thickness measurements without the gage probe depressing the coating film
- Dimensions: 3 x 8 cm (1 x 3 inches)

## Specifications & Ordering Guide

### Certified Plastic Shims

- Certified shims provide an economical alternative to Coated Metal Plates but have a reduced accuracy
- Each shim is packaged in a protective sleeve
- Certificate of Calibration showing traceability to PTB is included with each shim or set of shims
- Certified and labeled in both Metric and Imperial units



Certified Plastic Shims are available in the following thicknesses (all thicknesses are approximate):

Order Code	Approximate Thickness	Color	Accuracy
CS1	25 $\mu\text{m}$ (1 mil)	Orange	$\pm 2 \mu\text{m}$ ( $\pm 0.08 \text{ mil}$ )
CS2	50 $\mu\text{m}$ (2 mil)	Red	
CS3	75 $\mu\text{m}$ (3 mil)	Green	
CS5	125 $\mu\text{m}$ (5 mil)	Blue	
CS10	250 $\mu\text{m}$ (10 mil)	Brown	
CS20	500 $\mu\text{m}$ (20 mil)	Yellow	
CS40	1000 $\mu\text{m}$ (40 mil)	White	
CS60	1500 $\mu\text{m}$ (60 mil)	Black	
CSS	Complete set of 8		

**Note:** While DeFelsko inspects non-certified plastic shims to ensure they are within the nominal stated accuracy, they are not traceable to any national or international standard.

### Non-Certified Plastic Shims

- Provide a quick operational check of the instrument by allowing the user to perform practice measurements
- Can be used to protect the probe when measuring on tacky, rough or hot surfaces
- Labeled in both Metric and Imperial units



Available as a set of 5 (below):

Approximate Thickness	Color	Accuracy
25 $\mu\text{m}$ (1 mil)	Orange	$\pm 20\%$
50 $\mu\text{m}$ (2 mil)	Red	$\pm 10\%$
125 $\mu\text{m}$ (5 mil)	Blue	$\pm 5\%$
250 $\mu\text{m}$ (10 mil)	Brown	$\pm 5\%$
500 $\mu\text{m}$ (20 mil)	Yellow	$\pm 5\%$



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