

Ag/Al

Description

This application measures the thickness of Ag plated on ceramic or plastic.

Requirements

SmartLink FP version 2.0 is required to run the application. The application was released on rules file version 4.14.99b. The following standards are used to create the calibration.

Required Standards	
1	Ag ∞
2	Al ∞
3	Ag foil

Available Standards
40, 80, 160, 360, 600 μ in Ag foils

Accuracy / Feasible Range

The recommended measuring range of thickness depends on the calibration standards used. The following is the thickness range for a selected standard in which one can expect 4% accuracy.

Standard	Collimator	Measuring Range
200 μ in Ag / Al	12 mil	80 to 600 μ in

Precision

Measured Standard	Collimator	Meas. Time	Standard Deviation
(Nominal Thickness)	Size (mils)	(sec)	Ag Thickness (μ in)
200 μ in Ag / Al	12	15	191.3 \pm 2.24

How To Calibrate

Using the Calibrate FP mode, create a new calibration file by calling up the following elements in the indicated layers: **Ag/Al**. The standards should be entered into the calibration in the following manner.

1	Ag ∞
2	Ag foil / Al

Information such as thickness should be entered in the **Standards** tab.

This application can be measured with a calibration or an Application file. When creating the Application file, nothing should be entered in the Known Thickness or Composition table under the **Advanced** tab.