

Metal Surface Roughness Standard



Surface Roughness Standard

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SPECIFICATIONS

Regulatory Compliance

Certificate of Conformance:

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PRODUCT DETAILS

- Conforms to S.A.E. and Military Specifications
- Manufactured to ANSI-B-46.1-1985
- A Composite Set of 30 Standards

Surface Roughness Standards contain 30 samples of 7/8" x 3/8" electroformed solid nickel plates for quickly evaluating the surface finish for six of the most common machining methods. Markings for each of the lapping, reaming, grinding, milling, and turning standards are in AA (micro-inches) and the metric equivalent, Ra (micrometers). Each surface type is consistently reproduced from masters and is accurate within $\pm 10\%$ of the nominal value. Surface Roughness Standards are an ideal tool for quality assurance labs, engineering departments, drafting rooms, and machine shops. The standard gives the designer or operator a realistic idea of the feel, appearance, and texture of machined components. Instructions and CLA/Ra/AA correlation graph are included. The standard is packaged in a handy 6" x 3" wallet carrying case. The calibrated unit includes a long-form NIST traceable calibration report.

TECHNICAL INFORMATION

Surface Finish Type	# Samples	Marking Sizes (AA values)
Flat Lapping	3	2, 4, 8 μ in
Reaming	3	16, 32, 63 μ in
Grinding	6	2, 4, 8, 16, 32, 63 μ in
Horizontal Milling	6	16, 32, 63, 125, 250, 500 μ in
Vertical Milling	6	16, 32, 63, 125, 250, 500 μ in
Turning	6	16, 32, 63, 125, 250, 500 μ in