

Surface Comparator

A precision Nickel Comparator Plate that conforms to International Standard ISO 8503 and ASTM D4417 for grit and shot-blast surface roughness comparison measurement.



When steel has been blast-cleaned, the surface consists of random irregularities with peaks and valleys that are not easily characterised. Experts have recommended that the profile should be identified as dimpled (shot-blast) or angular (grit-blast), and that they should be graded as Fine, Medium or Coarse with each grade being defined by limits specified in ISO 8503. These characteristics are considered to give sufficient distinguishing features for most painting requirements.

Easy to use, place the Comparator against an area of the test surface. Compare in turn the four sectors of the Comparator against the test surface using the X10 magnifier, placed so that the test surface is viewed simultaneously with a segment of the Comparator. The nearest profile to the Comparator determines the grade.

The different grades are defined as follows: Fine-grade profiles equal to segment 1 and up to, but excluding, segment 2; Medium-grade profiles equal to segment 2 and up to, but excluding, segment 3; and Coarse-grade profiles equal to segment 3 and up to, but excluding, segment 4.

Supplied in a Protective Wallet.

Complies with International Standards	
ISO 8503-1	ASTM D 4417-A
ISO 8503-2	

Surface Comparator Specifications				
Part No	Model Type	Section Profiles Metric	Section Profiles Imperial	Conformance Cert Part No
R2006	Grit	25µm, 60µm, 100µm, 150µm	1mils, 2.4mils, 4mils, 6mils	NRC01
R2007	Shot	25µm, 40µm, 70µm, 100µm	1mils, 1.6mils, 2.8mils, 4mils	NRC01
RA001	X10 Illuminated Magnifier (for viewing the Surface Comparator)			