

Novo-Curve™ Glossmeter

Used in accordance with : ISO 2813, ASTM D523



The **Novo-Curve** is a unique instrument with specially designed optics for accurately measuring curved surfaces and small areas. It can also be used to measure flat surfaces and areas which are too small to measure with standard glossmeters. With built in statistical analysis and the ability to download results to a PC the instrument has all the features you will ever need for fast accurate curved surface gloss measurement..

Unique Features

- Measures curved AND flat surfaces
- Measures using the 60° geometry
- Measure small, curved or irregular surfaces
- Simple jiggling system
- Bench top instrument
- Hands free operation, easy sample manipulation
- Full statistical analysis
- Constant read feature
- Measures matt to mirror finish
- Download, analyse and store readings in Novo-Soft
- Extended two year warranty
- Accurate and reliable

Simple checking of curved surfaces

- For curved surfaces, the correct gloss value is the peak value identified on the sample. Continuous read mode on the Novo-Curve™ greatly simplifies this process

Hands free sample measurement

- The included footswitch enables the user to easily manipulate the sample for measurement

Repeatable sample positioning

- Bespoke sample securing systems allow multiple samples to be measured in exactly the same place.

Statistical analysis of results

- On-board statistical analysis of batch readings (max,min, mean, SD and CV)

Detailed analysis of results

- USB data transfer of results to Novo-Soft™ for further analysis and export to CSV

Certainty of measurement

- For improved gloss control, calibrate on a standard that matches closest to your sample Additional standards are available from matt to mirror finish with UKAS / ISO 17025 certification



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Applications

Measure the gloss of:

- Curved and flat surfaces
- Small areas
- Highly polished metals
- Matt finishes

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- Paints - domestic appliances, pens, pencils, toys, etc
- Wood - natural, varnished, laminated
- Automobile parts - steering wheel, dashboard, trim, etc.
- Plastics - extruded and moulded parts such as window frames, bottles, mobile phones, etc.
- Furniture - wood, plastic or metal
- Glazed ceramics - mugs, bathroom furniture, tiles
- Tubes & cylinders - pipes, bottles, soft drinks cans
- Electroplating - jewellery, door knobs, handles, taps, buttons
- Camouflage - ultra low gloss finish on military equipment; binoculars, firearms, etc.
- Coin banks
- Frosted glass bottles - perfumes, whisky, etc.



Plastic parts

From small items such as mobile phone buttons to large extruded pipes



Coins

Polished metals



Automotive

Switches and buttons, chromed exhausts, curved body and interior parts



Banknotes

Holograms and watermarks



Furniture

Wood, plastic and metal



Dental Research

Tooth samples and prosthetics



Ceramics

Porcelain, tiles and glazed crockery



All Paints and Coatings



Electroplating

Chromed pipes, jewellery, handles, surgical instruments and prosthetics

Principle of Operation

Gloss is measured by directing a constant light beam at an angle to the test surface and monitoring the reflected light. The Novocurve™, designed in conjunction with the British National Physics Laboratory (NPL), is perhaps the only glossmeter available with the capability to measure gloss on curved surfaces. The Novocurve™ measures over an area approximately 3% of the size of that utilised by a standard gloss-meter, and so may measure local effects rather than having the "averaging" effect of a larger beam area. This instrument is designed to store and average up to 199 readings, so it is possible to "average" a larger and selectable area and using a suitable sample population, it is possible to obtain representative results by statistical analysis.



Specifications

Description	Specification
Measurement Angle	60°
Range	0 - 1000 GU
Repeatability	0.2GU (<200GU)
Reproducibility	0.5GU (<200GU)
Measurement Area	4.5mm
Sample Size	2mm x 2mm
Weight	2.5kg
Dimensions	160 x 220 x 100mm
Mains	110 – 120V AC or 220 – 240V AC

Standards

- **ISO 2813** Paints and varnishes - Determination of specular gloss of non-metallic paint films at 20 degrees, 60 degrees and 85 degrees
- **ASTM D523** Standard Test Method for Specular Gloss

Optional Extras

Free Extended Warranty

- Register for a two year comprehensive guarantee

Free Light Source Warranty

- Guaranteed for the life of the instrument

Optional Accessories

- Sample securing system



Packing List

The Novocurve™ Glossmeter includes the following :

- BAM traceable calibration tile and certificate
- Footswitch
- 220V A.C. Mains power pack
- USB data cable + Novo-Soft Installation CD
- Tile cleaning cloth
- 4 x Large sample jiggling posts
- Instruction manual

