

[www.rhopointinstruments.com](http://www.rhopointinstruments.com)

## **NOVO-GLOSS™** 20/60/75°

- 20/60/75° GLOSSMETER
- Fully featured instrument
- Robust design and construction

# NOVO-GLOSS™ 20/60/75°

INTRODUCING THE 20/60/75° GLOSSMETER

THE NOVO-GLOSS 20/60/75 IS A FULLY FEATURED INSTRUMENT FOR MEASURING THE GLOSS OF A VARIETY OF SUBSTRATES

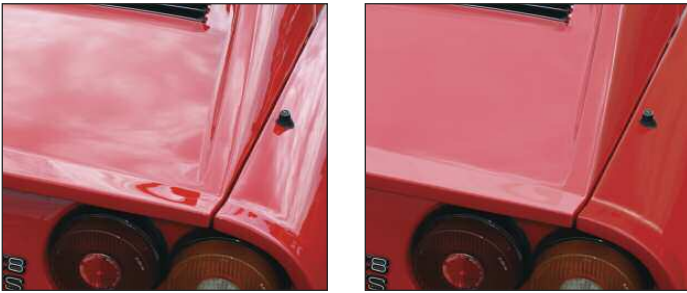


## WHY MEASURE GLOSS?

Gloss is an aspect of the visual perception of objects that is as important as colour when considering the psychological impact of products on a consumer.

It has been defined as **'The attribute of surfaces that causes them to have shiny or lustrous, metallic appearance.'**

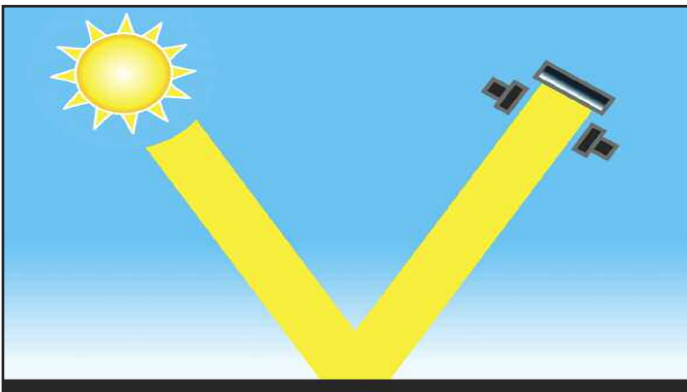
Manufacturers design their products to have maximum appeal, for example: highly reflective car body panels, gloss magazine covers or satin black designer furniture.



It is important therefore that gloss levels are achieved consistently on every product or across different batches of products.

## HOW IS GLOSS MEASURED?

Gloss is measured by shining a known amount of light at a surface and quantifying the reflectance. The angle of the light and the method by which the reflectance is measured are determined by surface and also aspect of the surface appearance to be measured.



## WHICH ANGLE SHOULD I USE FOR MY APPLICATION?

**ASTM D523** describes three measurement angles to measure gloss across all surfaces.

Gloss is measured in gloss units (GU) and is traceable to reference standards held at **BAM** (Germany), **NRC** (Canada) or **NPL** (UK).

### Universal Measurement Angle: 60°

All gloss levels can be measured using the standard measurement angle of 60°. This is used as the reference angle with the complimentary angles of 75° and 20° often used for low and high gloss levels respectively.

### Low Gloss: 75°

For improved resolution of low gloss a grazing angle of 75° is used to measure the gloss of paper.

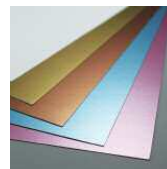
This angle also has a larger measurement spot which will average out differences in the gloss of textured or slightly uneven surfaces.

### High Gloss: 20°

The acute measurement angle of 20° gives improved resolution for high gloss surfaces. Surfaces that measure 70GU and above at the standard angle of 60° are often measured with this geometry.

The 20° angle is more sensitive to haze effects that affect the appearance of a surface.

## SAMPLE APPLICATIONS



Paper



Ink



Paint

# NOVO-GLOSS™ 20/60/75°

## FEATURES

- Measures using 20°, 60° and 75° geometries
- Simultaneous read of all 3 angles
- Simultaneous calibration of all 3 angles
- Move and read: Easy continuous assessment of a large surface area
- Full statistical analysis
- Auto-ranging, measures matt to mirror finish

## INSTRUMENT SPECIFICATIONS

### Measurement

- Single button push to measure all parameters
- Fast measurement

### Statistical analysis

- Max, min, mean, S.D.

### Power

- 4 x AA batteries
- 20,000+ readings

### Measuring range

- 20°: 0 – 2000 GU
- 60°: 0 – 1000 GU
- 75°: 0 – 150 GU

### Technical specification

- 20 & 60° angles:
  - Resolution: 0.1GU
  - Repeatability: 0.2GU
  - Reproducibility: 0.5GU
- 75° angle:
  - Resolution: 0.1GU
  - Repeatability: 0.5GU
  - Reproducibility: 1.0GU

### Memory

- 199 readings

### Standards of compliance

- ISO 2813
- ASTM D523

### Measuring area

- 20°: 10.5mm circle
- 60°: 10 x 20mm ellipse
- 75°: 10 x 40mm ellipse

### Dimensions & weight

- 183mm x 115mm x 55mm (H x W x D)
- 1.1 kilos
- Packed weight: 4kg
- Packed dimensions: 130mm x 440mm x 250mm (H x W x D)
- Commodity code: 9027 5000

### Languages



## INCLUDED ACCESSORIES

- Certified calibration tile with certificate
- Instruction manual
- Tile cleaning kit
- 4 x AA batteries

## EXTRAS

### FREE EXTENDED WARRANTY

### FREE LIGHT SOURCE WARRANTY

Guaranteed for the life of the instrument

### CALIBRATION AND SERVICE

Fast and economic service via our global network of accredited calibration and service centres. Please visit [www.rhopointinstruments.com/support](http://www.rhopointinstruments.com/support) for detailed information.



Certificate no: FS 695372  
ISO 9001:2015



LOCAL AGENT

Blank area for local agent information.

00270/10/16