



# Colour Measurement of Whiskies, Beers and Sugar Solutions

## Lovibond Tintometer Series 52 (Brown)



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The Lovibond Tintometer Series 52 is a visual colorimeter for colour measurement of whiskies and similarly coloured liquids according to the Series 52 (Brown) Colour Scale. It is arranged with two adjacent fields of view, seen through the viewing tube, so that the product in the sample field and a white reflective surface in the comparison field are observed side by side, suitably illuminated. The Series 52 (Brown) Colour glasses are introduced into the comparison field by a simple system of sliding racks, allowing the user to compare the colour of light that is transmitted through the sample with that transmitted through the filters. The racks are varied until a visual colour match is found for the light from the sample and its colour can then be expressed in Series 52 (Brown) Colour units.

### Series 52 (Brown) Colour

The Series (Brown) Scale (also known as ° Lovibond in the US) was originally designed for colour measurement in the brewing and distilling industries. It has been largely superseded by the EBC Colour scales for the colour grading of beers in Europe but it is still used for beers in the US and for whiskies. The standard version includes a series of 23 amber/brown glasses in 3 racks as listed below. Other values are also available.

#### Rack Series 52 Colour Filters

1	1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0
2	10, 11, 12, 13, 14, 15, 1, 17, 18
3	0.125, 0.25, 0.5, 1.5, 20.0

The Lovibond Series 52 Tintometer is supplied with a set of 3 racks containing coloured glass filters (as above), a sample chamber liner with a white PVC reference, a spare white reference, rectangular fused glass cells (one each of 1/16", 1/8" and 1" path lengths) a colour analysis record card and instructions.

### Technical Specification

Measuring principle	Visual, in terms of Series 52 (Brown) Colour
Modes	Transmittance
Range	0.125 - 29
Optical system	3 glass-filled nylon racks containing a graduated range of Series 52 (Brown) colour standards
Viewing system	Fully adjustable, prismatic with integral blue filter for light standardisation.
Light source	2 x 12 Volt, 10 Watt tungsten halogen lamp
Illuminant	Approximates to daylight
Path length	0.004 - 6.0
Power pack	12 Volt ac, switchable to suit 220/110 Volt supply
Approvals	CE
Instrument housing	Fabricated sheet steel with a tough, textured paint finish
Dimensions	Width 330 mm, depth 410 mm, height 230 mm
Weight	7.5 kg