



Colour Measurement of Tanning Extracts According to the International Society of Leather Technologists and Chemists Official Method SLC119

Lovibond Tanning Tintometer



Tanning Tintometer The Lovibond Tanning Tintometer is a visual instrument for colour measurement of tanning extracts according to the International Society of Leather Technologists and Chemists' Official Method SLC119. Colour is determined by comparing light transmitted through a clear filtered analytical solution contained in a 1 cm cell with light transmitted through a series of red, yellow and blue glasses. The glasses are varied until a colour match is found for the light passing through the solution.

The official method requires the colour of the tanning extract to be expressed in units of red, yellow and black. Obtaining a value for black units relies on the principle that a combination of red, yellow and blue Lovibond glasses of equal values gives a neutral tint. The number of blue units is therefore deducted from both the red and the yellow, and this number then represents the black units. For example, 2.5 red, 7.9 yellow and 0.2 blue become 2.3 red, 7.7 yellow and 0.2 black.

Red and yellow units alone are typically sufficient to produce a colour match for extracts such as mimosa. When it proves impossible to match the solution with red and yellow glasses, the blue glasses are introduced to derive the black value. In extracts such as mimosa, introducing blue may be an indication of iron contamination.

In addition to colour measurement of tanning extracts, the Lovibond Tanning Tintometer may also be used to assess the surface colour of leathers in Lovibond units.

Colour Standards The Tanning Tintometer includes a special sub-set of the Lovibond RYBN scale containing the range of colour standards which is required for tanning extracts. The standards are located in eight racks, which are fitted with colourless compensating slides in the sample field:

Red	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0 10.0, 20.0
Yellow	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0 10.0, 20.0, 30.0, 35.0, 40.0, 50.0, 60.0, 70.0
Blue	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0

The Lovibond Tanning Tintometer is supplied complete with a set of colour glasses (as above), 2 x 1 cm optical glass cells, and an instructions manual (Order Code 18 02 30).

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