Lovibond® Surface Viewing System

Visual Grading System for Colour Control

For all light reflecting products

A Quick Visual Colour Check

The Lovibond® Surface Viewing System (SVS) is ideal for the many applications in colour analysis where it is adequate or even advantageous to make a quick visual comparison between a sample and a standard of the target colour. It is a simple yet effective visual instrument for grading and quality control of surface colours which enables the user to compare the light reflected from the sample with precalibrated colour standards under standardised lighting conditions. The SVS takes advantage of the high sensitivity of the human eye to colour differences, allowing a pass or fail decision to be made very quickly; operators can see immediately if a sample differs from the target colour and whether that difference is just noticeable or significant.

Customised Colour Grading Filters

Use of the SVS involves the development and manufacture of customised coloured glass filters which are matched by Tintometer to samples provided by the user - usually representing the ideal colour and acceptable colour limits or a series of product related colours for quality control purposes. Up to 9 individual glasses are housed in a Lovibond test disc which slots into the SVS for visual matching against sample colours.

Simple Operation Giving Immediate Results

The SVS consists of a standardised lighting unit to ensure uniform lighting conditions for consistent and accurate grading, topped by a visual instrument for matching the sample colour with the glass filters. The is placed in the lighting unit, then observed through the comparator which has two overlapping fields of view so that the product and the glass filters (backed by a white reflective surface) are observed side by side, suitably illuminated. The colour standards are varied by rotating the disc, allowing the user to compare the colour of light which is reflected from the with that transmitted through the filters, until a colour match is obtained.

Optional Diffusing Optics

For samples with an irregular surface (and therefore variable colour appearance due to dips, reflections and shadows) or for samples with variations in colour throughout the product, the SVS is available with optics which diffuse the surface of samples. The diffusing optics allow to view a sample of uniform appearance which represents an overall impression of colour given by the product. Examples of products which can be graded for colour using the diffusing optics include gels containing bubbles,

comparator
sample

products with coloured flecks, pills and tablets, coarse powders and granules.

Order Code	Product
17 40 10	*Surface Viewing System - for smooth surfaces with uniform colour*
17 40 20	*Surface Viewing System with Diffusing Optics - for irregular surfaces or variable colours.*

sample

Each version of the SVS is supplied with a 60 ml polystyrene container for liquids and a standard petri dish for other types of sample.

Glass filters for use with the Lovibond SVS are typically matched to samples and should be ordered separately.

viewing
users

Products must have reasonable colour stability to enable the manufacture of glass colour standards.

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