Lovibond® Colour Measurement

Tintometer® Group

Lovibond® Powder Cell Holder

For the Lovibond® RT300, RT400 & RT500

The Lovibond® 400640 Powder Cell Holding Fixture is designed to hold a cell for liquid or powder measurement. The fixture is designed specifically for an Optical Circular Sample Cell. The cell is enclosed in a black chamber which prevents ambient light from affecting the measurement. The fixture attaches to Lovibond® Models RT300, 400 & 500 Spectrophotometer Series. The spectrophotometer must be mounted in the Lovibond® 400620 Benchtop Stand.

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Measurements taken with the Cell Holder and Optical Sample Cell are intended for relative measurements comparing a standard and a sample batch. The fixed errors resulting from the thickness of the glass or plastic and translucency of the samples prevent comparison to an absolute reflectance standard.

Extreme care should be taken to prevent any of the sample material from being spilled on the instrument or in the instrument sample port as this may void your warranty. NEVER FILL THE OPTICAL SAMPLE CELL NEAR THE INSTRUMENT OR ITS MEASUREMENT PORT. Always ensure the outside and bottom of any sample holding cell is clean before placing it on the sample port.

The 'large measurement aperture' instruments should be used whenever possible to minimise the effect of sample non-uniformity.

Depending on the type of material being measured, specific sample preparation and presentation procedures should be established to ensure repeatable results.

Non homogeneous liquids should be stirred and powders should be tapped to settle them.

Liquid measurement should always be performed on the same volume of liquid.

Operating Instructions:

1. Mount the spectrophotometer in the Lovibond® 400620 Benchtop Stand. Place the Benchtop Stand in the down position.
2. Place the Optical Sample Cell Holding Fixture in position on the spectrophotometer shoe and tighten the securing screw
3. Verify the Optical Sample Cell is clean.
4. Place the material to be measured in the Optical Sample Cell.
5. Carefully place the Optical Sample Cell into the Cell Holding Fixture
6. Place the cover over the sample material
7. Perform a measurement.

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