

# Microsol light fastness tester



## Introduction

**Microsol** is a *simple* and *relatively inexpensive* instrument for evaluating colour fastness and degradation of materials, due to the effects of sunlight.

The **Microsol** Light Fastness Tester is convenient and compact. It fits easily on to a standard laboratory bench. The instrument is equipped with a pre-settable timer,

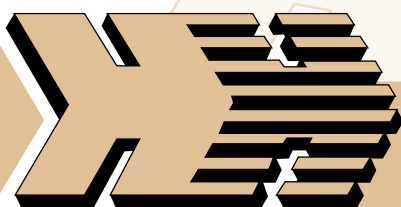
which controls the duration of a test. Another timer registers the length of time, for which a lamp has been running. It is recommended to change lamps after approximately 2000 hours.

Textile specimens (50 x 10mm) are stapled to thin pieces of card. The specimens may be strips of cloth, yarns laid parallel, or mats of fibre, combed and

compressed, to present a uniform surface. The specimens are placed one above the other in the specimen holders. Each specimen holder accepts up to 10 specimens. The instrument takes up to 12 specimen holders. A total of 120 specimens can, therefore, be tested simultaneously. However, in practice, some of the capacity is occupied by the

*continued overleaf*

*The right is reserved to alter the specification or modify the appearance without notice.*



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# Microsol

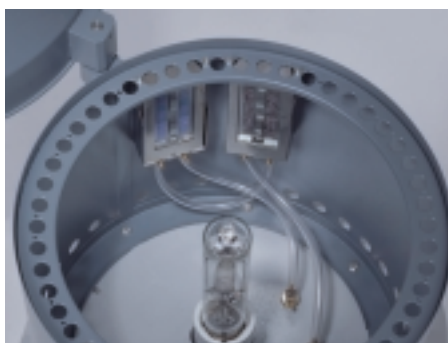
## light fastness tester

Reference Standards, against which fading of the specimens is assessed.

On test, the temperature inside the instrument can rise to 40°C above ambient, and as the colour of some materials degrades under the influence of temperature as well as light, the specimen holders incorporate a water-cooled jacket. The holders are linked, in series, by plastic tubing, and cold water is circulated through them in order to dissipate the heat. *Permanent plumbing is not required.* The instrument can be fed from a slow-running tap and drained into a sink.

The light fastness of some textiles can also be dependent upon the humidity conditions during exposure. The effective humidity inside a specimen holder can be controlled by introducing a small quantity of saturated solution, e.g. potassium carbonate.

We also manufacture the **Megasol** Xenon Arc *Light* and *Weathering* Fastness Tester. **Megasol** is a computer-controlled instrument, which fulfills the exacting requirements of major retailers and of many national and international standards. Please ask for details.



## How to order?

### Microsol Light Fastness Tester Model 495

Standard accessories:-

1 x MB/U Lamp

3 x Specimen Holders

1 x Grey Scale for assessing change in colour

1 X Set Reference Standards

<b>397-351</b>	Additional Specimen Holders (maximum 9) <i>maximum specimen thickness: approx. 4mm</i>
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<b>397-352</b>	Specimen Holders for carpet and thick materials (maximum 12) <i>maximum specimen thickness: approx. 15mm</i>
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<b>106-151</b>	Spare MB/U Lamp
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<b>766-466</b>	Spare set Reference Standards
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<b>164-339</b>	Transformer for 110V supply only
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Specify single phase voltage and frequency

## Technical Data

<b>Maximum number of specimen holders</b>	12
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<b>Maximum space per specimen holder</b>	110 x 50mm
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<b>Specimen thickness</b>	Up to 15mm
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<b>Light source</b>	400W MB/U lamp
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<b>Working life of lamp</b>	Approx. 2000 hours
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<b>Standard</b>	BS 1006 UK-TN
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