

Optical Analysis

Polarimeters, Refractometers

Refractive index standards according to Ph Eur



Several reference materials for use in testing instruments are described in the European pharmacopoeias (e.g. Ph Eur. 2.2.6). In this case, the substances trimethylpentane, toluene and methyl-naphthalene are prescribed. This instrument test should be carried out prior to every analysis.

Merck now supplies these reference materials. The comprehensive product range includes standards suitable for practically every operating range; the range 1.3915 – 1.6160 is covered.

| Description                                                       | Refractive index (20°C) | Pk | Cat. No.     | £       |
|-------------------------------------------------------------------|-------------------------|----|--------------|---------|
| Refractive index standard kit 1, (2,2,4-Trimethylpentane / water) | 1.3915                  | 10 | 1.08962.0001 | 100.00W |
| Refractive index standard kit 2, (Toluene/water)                  | 1.4969                  | 10 | 1.08961.0001 | 100.00W |
| Refractive index standard kit 3, (1-Methylnaphthalene / water)    | 1.6160                  | 10 | 1.08963.0001 | 100.00W |

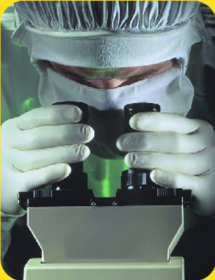


**Lux meter**


Portable meter with autozero and three ranges, providing accurate results to  $\pm 5\%$   $\pm 2$  digits over a wide Lux range shown on a large, easy-to-read LCD. A separate light sensor enables measurement at an optimum position. Meter is powered by one 9V battery and has a built-in low battery indicator. Supplied with instruction manual, battery and carrying case.

|                          |                               |
|--------------------------|-------------------------------|
| Range, overall           | 0-50,000 Lux (3 ranges)       |
| range 1                  | 2,000 Lux resolution 1 Lux    |
| range 2                  | 20,000 Lux resolution 10 Lux  |
| range 3                  | 50,000 Lux resolution 100 Lux |
| Sampling time (sec)      | 0.4                           |
| Operating temp./humidity | 0 to 40TCC / less than 80% RH |
| Dimensions, mm           | 108 x 73 x 23                 |
| Mass (g)                 | 160                           |
| Cat. No.                 | 637-0002                      |
| £                        | 114.00M                       |

For this year's collection of Cleanroom supplies



see Chapter 1 of the VWR International Catalogue



Thin Film for XRF, continuous roll

- High quality, good reproducibility
  - Choice of 5 materials
  - Choice of gauges
- Each roll of thin film (except Cat. No. 710-0159) is 7.6cm wide, 91.4m long and supplied in a box which is equipped with serrated cutting edge. In general each roll should provide for 1,200 preparations (5cm lengths per sample). The Polyimide (Kapton) thin film, Cat. No. 710-0159 is supplied in lengths of 15.2m, with a width 7.6cm.

| Description        | Gauge (µm) | Cat. No. | £      |
|--------------------|------------|----------|--------|
| Mylar              | 2.5        | 710-0098 | 58.67N |
| Mylar              | 3.6        | 710-0135 | 55.61N |
| Mylar              | 6.3        | 710-0149 | 44.00N |
| Prolene            | 4.0        | 710-0153 | 97.76N |
| Polypropylene      | 6.0        | 710-0154 | 74.75N |
| Polyimide (Kapton) | 7.5        | 710-0159 | 65.00N |
| Polycarbonate      | 5.0        | 710-0161 | 67.50N |

Thin Film for XRF, continuous roll

- Gas permeable membrane for pressure equalisation
  - Allows entrapped gases or vapours to be purged out of the system
- Thin film, with a gas permeable membrane, has unique submicronize passageways extending from one surface to the other. This permits gases and vapours to permeate and prohibits the penetration of sample particles. Intended to establish and maintain pressure equalisation within an XRF sample cup and instrument sample chamber. Supplied in a box equipped with serrated cutting edge. Roll 6.4cm wide and 5.1m long.

| Pk | Cat. No. | £      |
|----|----------|--------|
| 1  | 710-0152 | 36.00N |

Thin Film for XRF, pre-cut circles

- Choose material, gauge and quantity
  - Pre-cut for your convenience
- Each thin film circle has a diameter of 63.5mm.

| Material      | Gauge (µm) | Pk   | Cat. No. | £       |
|---------------|------------|------|----------|---------|
| Mylar         | 2.5        | 500  | 710-0126 | 58.67N  |
| Mylar         | 2.5        | 1000 | 710-0128 | 97.74N  |
| Mylar         | 3.6        | 500  | 710-0138 | 53.75N  |
| Mylar         | 3.6        | 1000 | 710-0139 | 88.00N  |
| Mylar         | 6.0        | 500  | 710-0150 | 46.93N  |
| Mylar         | 6.0        | 1000 | 710-0151 | 78.19N  |
| Prolene       | 4.0        | 500  | 710-0155 | 93.44N  |
| Prolene       | 4.0        | 1000 | 710-0156 | 158.28N |
| Polypropylene | 6.0        | 500  | 710-0157 | 62.25N  |
| Polypropylene | 6.0        | 1000 | 710-0158 | 128.66N |
| Polypropylene | 12.0       | 1000 | 710-0160 | 118.71N |
| Polycarbonate | 5.0        | 500  | 710-0162 | 47.25N  |