

# OIL EXTRACTION APPARATUS

Code 273B



**Equipment for** the measurement, in a few minutes, and in a cold process, of the oil, fat and lubricant percentage contained in fibres, natural yarns (silk, wool), synthetic or man-made yarns (viscose, nylon, polyester, acrylic and polypropylene).

The heating temperature is electronically set and maintained. If necessary, the equipment can be supplied with a report, to certify the calibration. The results can be compared with the "soxlet" hot process method's, but the necessary extraction time is highly reduced, compared with the necessary 4/6 hours with the latter.

## TECHNICAL FEATURES

- Electronic device for the setting and the control of the desired heating temperature .
- Temperature range: from environmental temperature to +120°C.
- Pressure kit for keeping the sample under a 1 Kg constant weight .
- 20 aluminium plate set, to collect the extracted solutions.
- Power supply: 220V, 50Hz (110V, 60Hz with external transformer Code 2520.300.2).
- Power absorbing: 50VA.
- Dimensions: 25x15x43 cm .
- Net weight: 5 Kg .

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## TESTING METHOD

A fibre or yarn sample of +/- 2 g must be weighed on an analytical scale, and inserted into the vertical tube of the equipment. In the container tube, 10 ml of a specific solvent are then introduced and the pressure kit (1 Kg weight) is applied on the sample.



The solvent filters through the sample, and, in a cold process, extracts the contained oil slowly dropping it in the aluminium plate, under the tube, previously heated at the desired temperature. The solution in the hot plate evaporates immediately, while the extracted materials dry and deposit in the plate. The oil percentage of the sample is obtained comparing the weight difference of the aluminium plate before and after the test with the total sample weight.

The solvent to be used is different according to the type of sample, but petroleum ether is mostly used.

## OPTIONAL ACCESSORIES

- 50 aluminium plate set – **Code 273 2**
- TE 124S Sartorius Scale; accuracy 0,0001gr, capacity 120 gr – **Code 165 626**
- Petroleum ether (1000 ml) – **Code 273 4**
- Dichloroethane (1000 ml) – **Code 273 6**
- Benzene (1000 ml) – **Code 273 8**
- Calibration report

