noselab ats
ADVANCED TESTING SOLUTIONS

MELT INDEX

TECHNICAL DATASHEET

This equipment is necessary to determine the Melt Flow Rate of thermoplastic materials basing on Gravimetric Method

The method requires the simplest model among line of plastometers. The heated material is extruded, cut manually at regular intervals, and weighed on an analytical balance (not included).

The MFR in 10 minutes will be then calculated, as per standards.

Technical features:

- Metal frame and case painted with epoxy resins
- 5" TOUCH TFT digital screen colour display, for temperature setting and data input
- Heating system: two individually controlled resistances (resolution of 0.1°C)
- Operating temperature range: 50 to 300°C
- Thermal stability: within ± 0.2°C in the testing area
- Test chamber: ∅ 9.55 mm made of steel (52/55 HRC)
- Piston: ∅ 9.474 mm, height of the pressing part 6.35 mm, made of steel (52/55 HRC). Overall weight 325 g, complete with weight support head and flag's arm
- Die: internal ∅ 2.095 mm, height 8 mm, made of steel (60/65 HRC)
- Set of 4 adjustable feet for instrument levelling, assembled
- Control mirror, assembled

Standard Tools:

- Sample loading funnel
- Pressing tool for compressing the material in the test chamber
- Die cleaning tool
- Test chamber cleaning tools (3 different shapes)

Technical features:

- Power supply: 230V, single phase, 50/60Hz; 0.5 kWA
- Dimensions (WxDxH): mm 420x330x530
- Weight: approx. 25 kg

Accessories to perform gravimetric tests
NOSELAB ATS can also supply

- Table timer
- Analytical balance

Main specifications of Melt Index Hastelloy, for measurements of corrosive plastics (i.e. PVC)
This unit has the same design as the std Melt Index but all parts in contact with the tested material – test chamber, piston and die – which are made of Hastelloy, a corrosion-proof metal alloy

Accessories and spare parts:

- Interchangeable add-on weights set to match conditions as per Standards:
  - 1.000, 1.050, 1.200, 2.160, 5.000, 10.000,
  - 12.500, 20.000, 21.600 kg
- Standard die or different sizes
- Calibrated Go-no-go gauge

Code	Description
10002013	Manual Melt Index
10002017	Manual Melt Index in Hastelloy

Reference standards				
ASTM	D1238 Meth. A	D2116	D3159	D3364
ISO	1133			
UNI	5640			