



# MOONEYCHECK-DRIVE

**MOONEY VISCOMETER CONTROLLED BY PERSONAL COMPUTER FOR THE PERFORMANCE OF VISCOSITY, SCORCH AND STRESS RELAXATION TESTS.**

STANDARDS: ASTM D1646; ASTM D3346; GOST I0722-76; ISO 289-1; ISO 289-2; ISO 289-4; JIS K\_6300-1;

NOTE: COMPLIANCE WITH SOME STANDARDS MAY REQUIRE OPTIONAL ACCESSORIES OR SETUPS.



The Mooney viscometer is a shearing-disc viscometer, which permits to measure the Mooney viscosity, Pre-curing (scorch) and Stress Relaxation Characteristics of uncompounded or compounded rubbers. The test is carried out by measuring the torque, which has to be applied under specified temperature and pressure conditions, in order to rotate a metal disc at 2rpm speed in the cylindrical test chamber filled with rubber. The resistance offered by the rubber to this rotation is expressed as the Mooney viscosity of the test piece.

### Key Features

- Performance of Viscosity, Scorch and Stress

### Relaxation tests

- Test chamber and rotor in compliance with international standards
- Touch-screen display for instrument control
- Independent PID temperature controllers with 0.1°C resolution
- Calibrated internal Weight for auto-calibration
- Pneumatic rotor expulsion system
- Light panel to check the status of the instrument from a distance
- Transparent protection panel with safety sensor
- Easily accessible test chamber with transparent safety panel and safety lock

- Full license of Mooneycheck\_10 software optimized for Bar-code sample identification
- Full license of Datagest software for complete management of Gibitre SQL Database
- Fume extraction predisposition
- CE label

### Accessories

- Rotor rotation speed settable between 0.01 and 20 RPM
- Volumetric die cutter.
- Polyamide or Polyester Film for the protection of the dies during the test.

**Numerical test data :** Viscosity test: MU\_ini, t\_ini, MU\_min, t\_min, Dt\_MU, MU\_4, MU\_X, Dt(X-Y), S4, SX (X,Y=customer def.); Scorch test :ts5, ts35, Dt\_35-5, ts3, ts18, Dt\_18-3, tsX, Dt\_X-Y ; Stress relaxation test: a, k, r, A, TX%

**Test curves:** Torque versus time curve, ; Log Mooney versus Log time of Stress Relaxation test, ; Upper and Lower Test Chamber temperatures

**Torque sensor:** Capacity: 230 MU; Resolution: 0.01 MU; Linearity Error (%FS):

+0.25

**Frequency of rotation:** Standard Instrument: 2 RPM; With variable speed option: adjustable between 0.01 to 20 RPM

**Temperature:** Between room temperature and +230 °C - Resolution 0.1 °C

**Personal Computer (optional):** Minimum Setup: Windows 10/11, Intel Core i3, 5GB RAM

