RHEOCHECK OD – DRIVE

OSCILLATING DISK RHEOMETER CONTROLLED BY PERSONAL COMPUTER.

STANDARDS: ASTM D2084; ISO 6502-1; ISO 6502-2;

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

gibitre INSTRUMENTS ®

Gibitre OD Rheometer measures the cure characteristics of a rubber compound in conformity with ISO 6502-2 and ASTM D2084 Standards. The measure of the vulcanization is carried out by measuring the modification in the mechanical characteristics of the sample. The instrument permits to apply a cyclic strain to a test piece and to measure the associated force. The test is performed at a defined temperature and the measure of stiffness recorded continuously as a function of time.
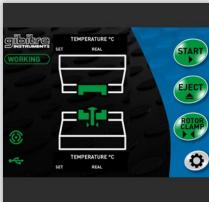
Key Features
• Test Dies and Rotor conforming to International Standards
• Independent PID temperature controllers with 0.1°C resolution
• Touch-screen display for instrument control
• Light panel to check the status of the instrument from a distance
• Transparent protection panel with safety sensor
• Full license of Rheocheck_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
• Pressure sensor for testing of cellular rubber.
• Constant Volume Sample Cutter.

Numerical Test Data: Torque Values: MI, ML, M90, MX, MH, PCR, S"@ML, TanD@ML, S"@MH, TanD@MH (X=customer-defined); Scorch Time: tS1, tS2, tSX ; Cure Time: t90, tX, tML, tMH, tPCR, tRX; Pressure (optional) PL, PH, tP, MPR, tMPR
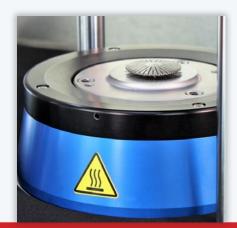
Graphic representation: Elastic curve (S'), Viscose curve (S"), Complex curve (S*)Tan-Delta curve, Curing speed, Upper and Lower test chamber temperatures

Oscillation frequency: 100 cycles /minute (1,7 ±0,1 Hz)
Oscillation Angle: 1°, 3°. Easy adjustment with calibrated gauges
Temperature: Room Temperature to +250 °C - Resolution 0.1 °C
Personal Computer (optional): Minimum Setup: Windows 10/11, Intel Core i3, 5GB RAM