Prescott instruments

Rheoline MFR Auto-Load

The **Multi-Function Rheometer Auto-Load** is an innovative and automated design. It is aimed to accommodate the needs of modern laboratories at all stages of the rubber production process, by means of switching the curemeter of choice into a full automatic mode utilising and permitting laboratory personnel time to perform other tasks whilst testing takes place.

Automated Multi-Function Rheometers have been in use for some time but a major problem encountered is slippage between the sample and the measuring transducer, which can lead to a reduction in accuracy and reproducibility.

Prescott Instruments' unique patented technology gives automation to the Multi-Function Rheometer without sacrificing test performance. Samples are placed on a tray and the tray is then inserted into the loader. The samples are then transferred automatically to the die cavity by way of a fabric belt. During the test the rubber is not completely covered but it is allowed to flow to the surface of the dies ensuring a positive test result with no slippage.

The MFR Auto-Load comes complete with:

» Three sample trays

» Each sample tray contains 16 sample slots

» Flexible Labline Acquisition Software

When the test is completed, the sample is removed from the die cavity complete with the fabric belt and the instrument is then ready to test the next sample. Standard instruments are supplied with 3 trays of 16 samples, and fully flexible software can be configured for the samples to be tested in any order. In addition if an urgent test is required it can be tested ahead of other samples simply by increasing the priority of the sample in question.

Samples tested can be given a pass/fail criteria and the networkable software system can then send the pass/fail information to any destination on the network for instance the Laboratory manager or the Quality manager.

www.prescott-instruments.com sales@prescott-instruments.com

Rheoline Multi-Function Rheometer Auto-Load

Technical Specification:

Standards	ISO No. 6502 / ASTM D5289
Sample Capacity	16
Die Configuration	Sealed
Oscillation Frequency	1.67 Hz
Oscillation Amplitude	0.5, 1.0, 3.0 degrees. (0.5 Standard, 1, 3, optional)
Temperature Range	Ambient to 250 °C
Temperature Control	3 term PID, control accuracy +/- 0.03 °C
Units of Measurement	Torque Inlb, dNm. Temp. Celsius, Fahrenheit. Pressure Lb/sqin., Kg/sqcm. (Optional) Time Min/Sec, Min/Decimal.
Output Type	Real time display of: - Elastic torque - Viscous torque - Tangent delta - Cure Rate - Pressure in Cavity (optional)
Data Format	All data stored in Access database with full export
PC Specification	Pentium Processor, networkable
Electrical	Single Phase 220/240V 50Hz | 110V 60Hz
Pneumatics	Filtered Air; 4.2 Kg/cm, (60 Psi)
Optional Extras	Programmable Temperature Zones Additional Oscillation Eccentric Pressure Transducer Rheoline Volumetric Sample Cutter

Quality sample preparation

It is strongly recommended that your samples are prepared with our **Rheoline Volumetric Sample Cutter** which is available from Prescott Instruments Ltd. Please see our brochure for more information.

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Prescott Instruments Ltd.
Unit F, Northway Trading Est,
Northway Lane,
Tewkesbury,
Gloucestershire,
GL20 8JH UK

Tel: +44 (0) 1684 274300
sales@prescott-instruments.com
www.prescott-instruments.com