DILATOMETERS

DILATOMETER 1000

DESCRIPTION

Complete and reliable measuring instrument for laboratory tests, research and control on ceramic, glass, metal, plastics, polymers, composite, etc. The measuring system consisting of a sample holder with push rod that transmit the thermal expansion of the specimen to an LVDT transducer. By means a PC with software “DILATA” for Windows 7/Vista and colour printer, allow the customer to full operate on the Dilatometer 1000 L.

The software “DATALOG” enable the following functions:

• Program thermal cycle
• Recording of the dilatation test
• View and printing graphic data
• PLC: Percent Linear Change versus temperature
• DCE: Differential Coefficient of Expansion
• ACE: Average Coefficient of Expansion
• COE: Coefficient of Expansion between two point
• Zoom selected portion of the curves
• Compare on video and print more curves
• Data transfer to other applications

TECHNICAL SPECIFICATIONS

INSTRUMENTS:

• Max temperature: 1000 °C
• Thermocouple S type (Pt-Pt-10%Rh)
• Sample reference: alumina
• Accuracy with quartz measuring system: ± 0,9 %
• Accuracy with alumina measuring system: ± 1,2 %
• LVDT Range: 5 mm
• LVDT linearity: 0,25 % FS
• LVDT contact pressure: 30 g. or more
• Sample size: L=50 mm x Ø 5 ± 10 mm (on demand L=25 mm x Ø 5 ± 10 mm)
• Max heating rate: 30 °C / min
• Supply: 240 V - 50/60 Hz single phase

EQUIPMENT

• Dilatometer notebook with O.S Windows, software, DILATA and colour printer

ACCESSORIES

GT2011 Dilatometer cutting tool specimen precision DCT
GT0194 Mini electrical tile cutter
GT1548 Sample holder
GT1549 Push-Rod
GT1550 Support sample
GT0329 Additional kiln
GT1122 Quarz measuring system
GT1258 Thermocouple