

Theta Industries, Inc.

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Instrument Questionnaire For Quench Dilatometer

Submitted by _____ Title _____
 Organization _____ Dept. _____
 Street _____ Tel. No. _____ Ext. _____
 City _____ Zip _____ Fax No. _____
 State/Province _____ Country _____

1 CHARACTERISTICS OF SPECIMEN TO BE MEASURED

Δ L Overall
 10 ppM 1/2%
 50ppM 1% For Required Resolution 1.1
 100ppM 2% Needed Accuracy Check Chart

Length Diameter Quench Specimen Size Deformation Specimen Size
 50mm 2" 25 mm 1" Alpha Specimen Size 1.3
 25mm 1" 20 mm 3/4" 12 mm 1/2"
 10mm 6mm 1/4"

10⁻⁶ mbar High vacuum
 10⁻⁴ mbar High vacuum Desired Specimen Environment 1.4
 10⁻² mbar High vacuum
 Protective gas

2 PLANNED APPLICATIONS, PHENOMENA, MATERIALS TO BE STUDIED

Applications Steel
 Educational Shape Memory
 Production control (QC) Others
 Research
 Coefficient of linear thermal expansion
 Phase transformation

Remarks: _____

Date _____ Signed _____

3 DESIRED INSTRUMENT CONFIGURATION

Diffusion Pump System 3.1
 Turbo Molecular Pump System 3.2
 Quench
 Deformation Dilatometer Head 3.3
 Coefficient of linear thermal expansion α
 Fused Silica Platinel TC
 Zero Expansion Specimen Holder 3.4
 Sintered Alumina PL, Type S TC
 Deformation force sensor
 Quench Furnace 3.5
 Liquid Nitrogen Quench
 Deformation, Double Coil
 1000°C 1600°C
 Multi Segment (computer) Temperature Programmer 3.6
 With magnification for recorder
 With digital display for computer. Signal Conditioner 3.7
 PC with HP Desk Jet
 PC with HP Plotter
 Strip, 2-pen 25 cm (10") Computer Recorder 3.8
 Dilasoft 1 for CTE, α
 Dilasoft 3 for Quench Software 3.9
 Dilasoft 33 FD Deformation
 Const. Temp. Circulator Accessories 3.10
 Overtemperature Protection Attachment
 Spot Welder Services
 Installation Servic Contract

Instrument Price Range:

Our Needs Are:
 Immediate
 \$20,000 1 to 3 months
 \$100,000 Over 3 months
 \$150,000 For Future Reference