

Theta Industries, Inc.

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Instrument Questionnaire for High Temperature Viscometer

Submitted by _____ Title _____ Dept. _____

Organization _____ Tel. _____ Ext. _____

Street _____ Fax _____

City _____ E-Mail _____

State _____ ZIP _____ Country _____

1 CHARACTERISTICS OF SPECIMEN TO BE MEASURED

- 10 to 10⁶
- 10⁹ to 10¹²
- 10¹⁰ to 10¹⁴

Expected Specimen Viscosity range Centi Poise

- Platinum to 1450°C
- ODS Platinum to 1650°C
- Sintered Alumina
- Fused Silica for PP & BB 1000°C

Specimen Holder

- Molybdenum
- Graphite

- Air
- 10⁻²
- 10⁻⁴ High vacuum
- Protective gas

Desired Specimen Environment

- 500°C
- 1000°C
- 1600°C
- 1700°C
- 1800°C
- 2300°C

Furnace

2 PLANNED APPLICATIONS, PHENOMENA, MATERIALS TO BE STUDIED

- Metal Other
- Glass
- Slag
- Coal Ash
- Mold Flux

- Multi Segment
- Overtemperature Protection

Temperature Programmer

- Numerical Readout
- PC with printer & Windows software
- 20 bit data acquisition (standard with parallel plate and bending beam)

Data Processing

- Educational
- Quality Control

- Calibration Oil
- Lead Silica Glass
- Soda Lime Glass
- Boro Silicate Glass

Reference Material

NIST standard reference material

3 DESIRED INSTRUMENT CONFIGURATION

- Rotating, high viscosity
2000 to 10⁷ c poise to 2300°C
- Rotating, low viscosity,
20 to 2 x 10⁵ c poise to 2300°C
- Parallel visc, 10⁹ to 10¹² c poise to 1600°C
- Bending beam visc, 1012 to 1016 c poise to 1100°C
- Interchangeable measuring heads

4. Instrument Price Range:

- \$ 25,000
- \$ 50,000
- \$ 100,000

Our needs are:

- Immediate
- 1 to 3 months
- Over 3 months

Remarks:

Date _____ Signed _____