

**Theta Industries, Inc.**

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**Spare Parts Questionnaire**  
for Specimen Holder Assembly  
To Identify Dilatometer Replacement Parts

Submitted by \_\_\_\_\_ Title \_\_\_\_\_  
Organization \_\_\_\_\_ Dept. \_\_\_\_\_  
Street \_\_\_\_\_ Tel. \_\_\_\_\_ Ext. \_\_\_\_\_  
City \_\_\_\_\_ Fax: \_\_\_\_\_  
State \_\_\_\_\_ Zip \_\_\_\_\_ E-mail: \_\_\_\_\_  
Country \_\_\_\_\_

**Configuration**

Horizontal  Specimen Support Platform,  Thermocouple Clip w  w/o  Bushing slot for thermocouple  
 Vertical  Specimen Support Disk  Inside Thermocouple

**Specimen Holder Max Temp.**

-170°C to 450°C  1700°C } Sapphire  2000°C  
 1000°C  1800°C } push rod  2100°C } Graphite, tungsten  
 1600°C  Al<sub>2</sub>O<sub>3</sub>  2300°C }

**Specimen Environment**

Air  10<sup>-4</sup> torr High vacuum  Corrosive Gas  
 10<sup>-2</sup> torr vacuum  Protective gas stainless required

**Specimen Dimension**

**Length**  50mm (2")  25mm (1") standard  10mm  
**Diameter**  1"  3/4"  1/2"  1/4"  1/8"

**Specimen Holder Dimension**

	Overall Length	Tube Diam OD	ID
- 1 <b>Specimen Holder Tube Material</b>			
<input type="checkbox"/> SiO <sub>2</sub> <input type="checkbox"/> Al <sub>2</sub> O <sub>3</sub> <input type="checkbox"/> C <input type="checkbox"/> W <input type="checkbox"/> w <input type="checkbox"/> w/o Water Cooling	_____	_____	_____
- 2 <b>Pushrod</b> <input type="checkbox"/> Single <input type="checkbox"/> Differential length w/o thread	_____	_____	_____
- 3 <b>Thermocouple</b> , Measuring. Type: <input type="checkbox"/> K <input type="checkbox"/> Platinel <input type="checkbox"/> S <input type="checkbox"/> B <input type="checkbox"/> C		tip to tip length	
- 4 <b>Protection Tube</b> <input type="checkbox"/> Mullite <input type="checkbox"/> w <input type="checkbox"/> w/o Water Cooling <input type="checkbox"/> Fused Silica <input type="checkbox"/> Sintered Alumina <input type="checkbox"/> Insulator, radiation shield <input type="checkbox"/> Felt <input type="checkbox"/> Solid	_____	_____	_____
- 5 <b>O ring</b> : Carrier shoulder* Ø <input type="checkbox"/> 32mm <input type="checkbox"/> 32/40mm <input type="checkbox"/> 40mm			

\*since 1998 new protection tubes are supplied with 40mm flanges