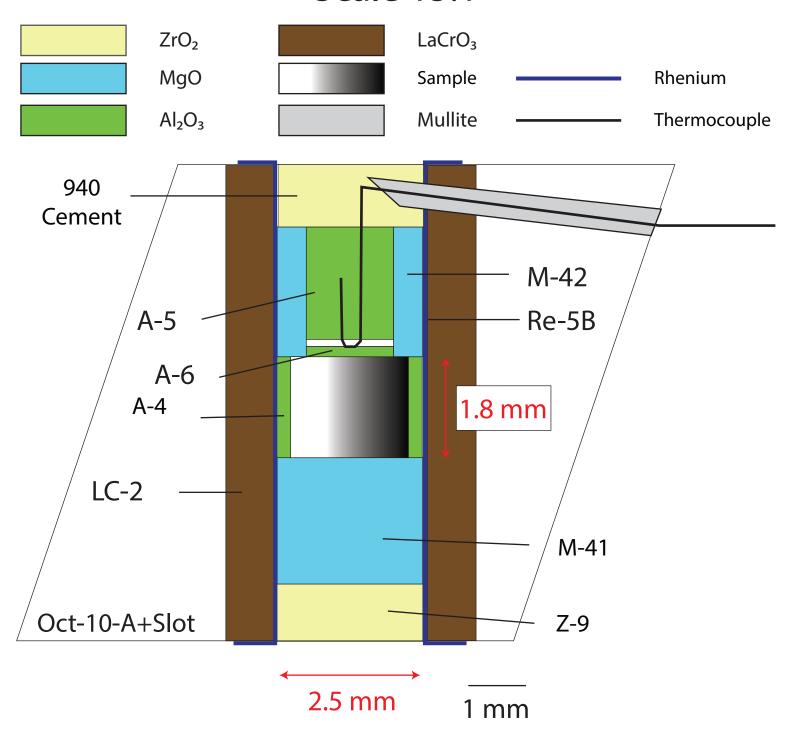
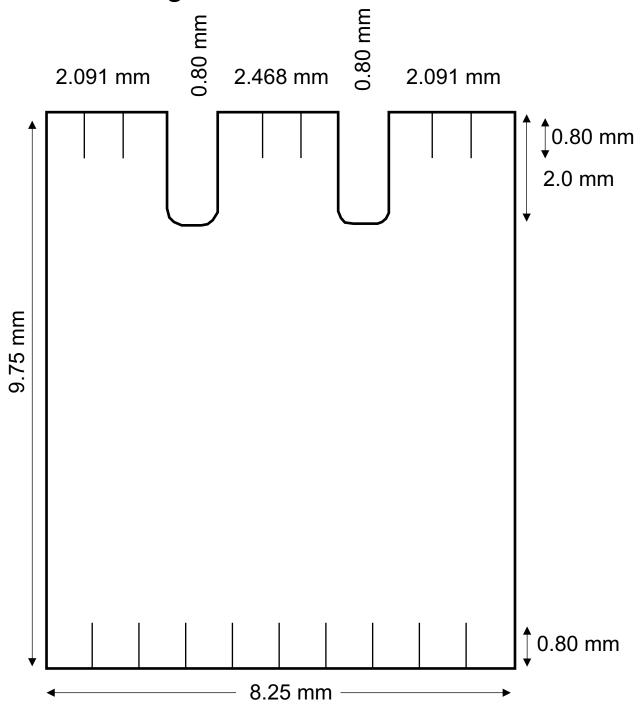
10/5 Standard Assembly Scale 15:1



Miniature rhenium furnaces for high-pressure experiments. Design #5B.



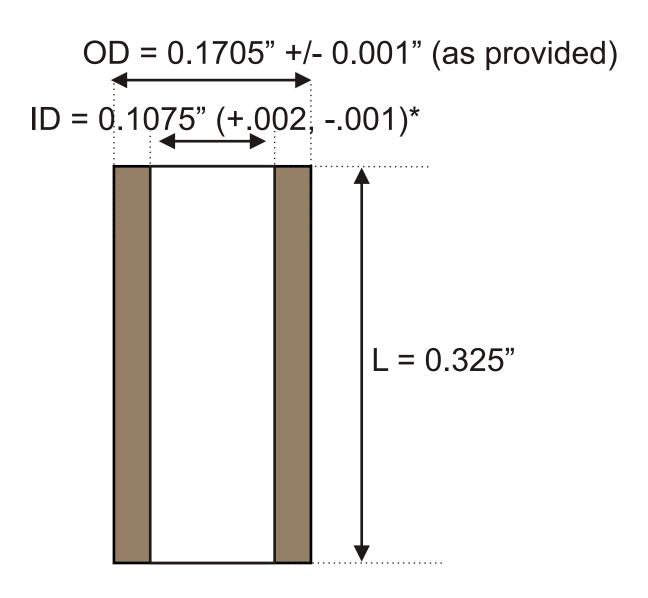
Thickness: 0.0025 inches (Material supplied by the customer). Yield approx. 189 pieces (7 by 27) from 3" x 10" sheet.

Two 0.8-mm wide notches on top as shown, 2.0 mm deep with approx. 0.2 mm radius at bottom. 6 slits, 0.8 mm deep, on top between the notches as shown.

9 slits on bottom side, 0.8 mm deep and equally spaced (0.825 mm apart).

All slits are approximately .003" wide.

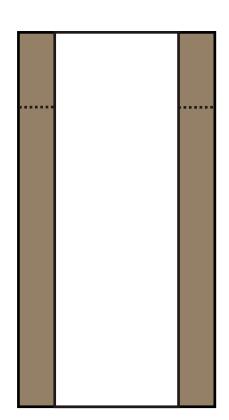
Part LC-2: Sleeve with 2 grooves (for 10/5)
Material: Lanthanum Chromite (Page 1 of 3) Quantity: (3/31/21 - material S6)



This part is provided.

Part LC-2: Sleeve with 2 grooves (for 10/5) Material: Lanthanum Chromite (Page 2 of 3)

A groove angle checker is provided for testing the angle of the grooves

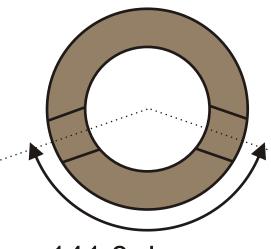


$$OD = 0.1705" +/- .001$$

$$ID = 0.1075$$
"

$$L = 0.325$$
"

Two round-bottomed grooves:
1 mm wide
141.8 degrees apart.
Depth 0.065"

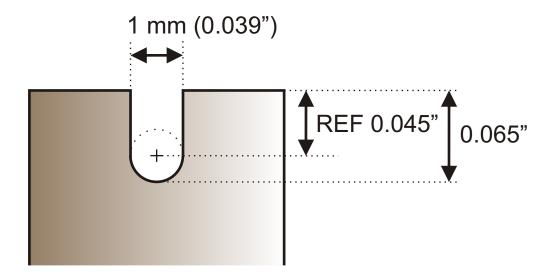


Thermocouple groove

141.8 degrees

Part LC-2 (cont) (page 3 of 3)

A. Detail of groove:

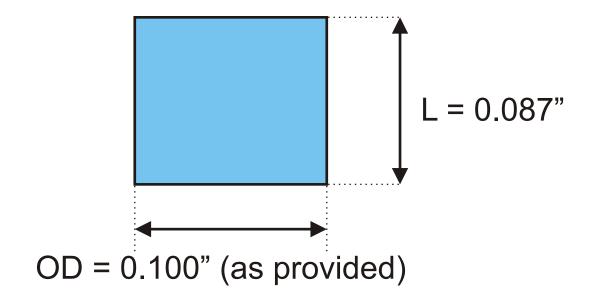


Procedure: The ceramic is brittle and a bit weak. Please use an emergency collet and hold the pieces gently in the collet. There should be an emergency collet already made for this purpose (in Bill Chapin's collection?).

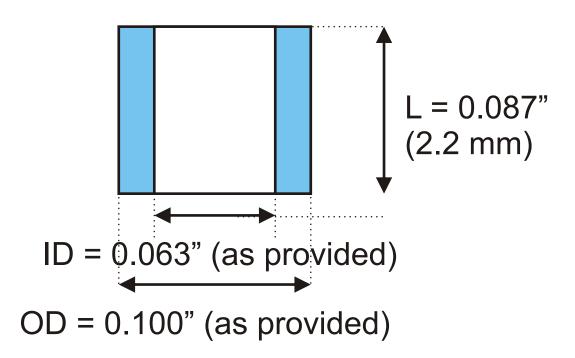
1 mm coated carbide end mills are supplied.

Part # M-41. MgO plug, for 10/5 assembly Scale 20:1

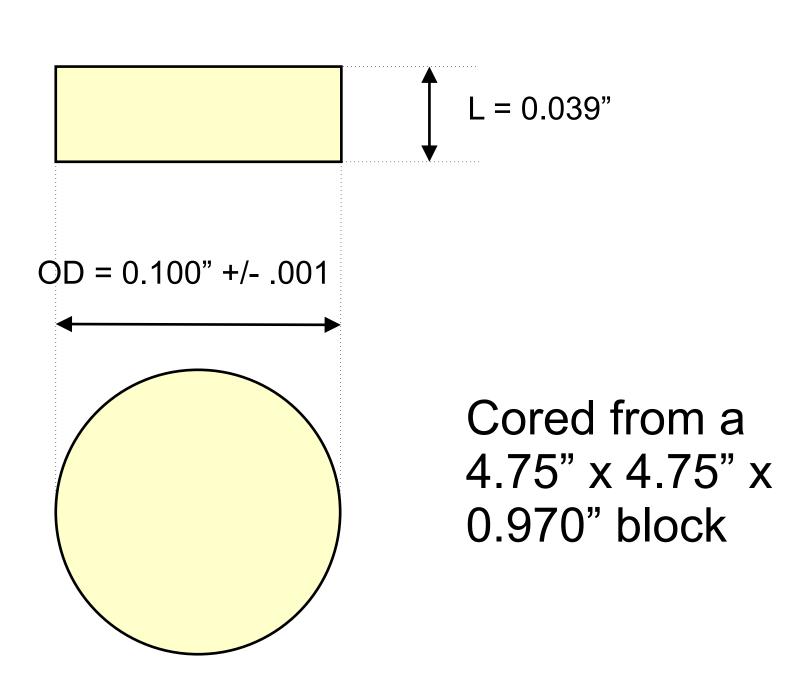
Material: MgO.



Part # M-42. MgO tc sleeve, for 10/5.assembly Scale 20:1

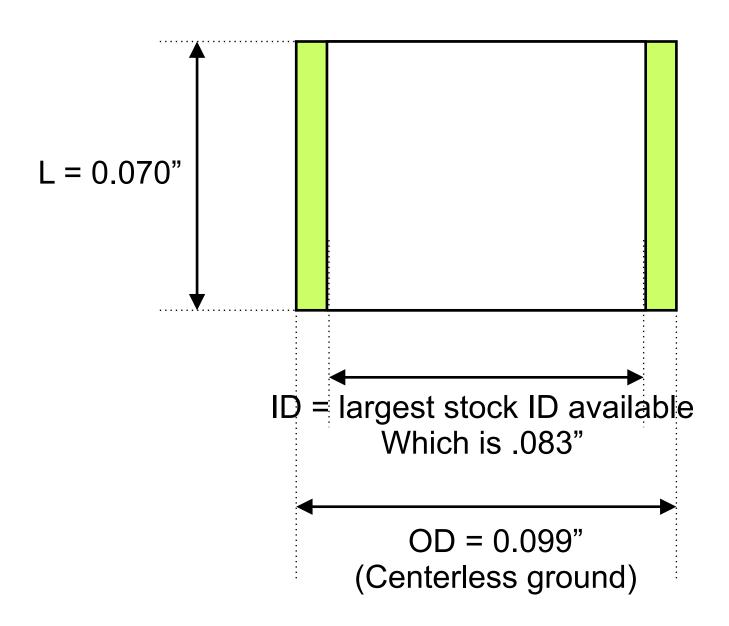


ASU zirconia part Z-9. Bottom end plug for 10/5 assembly Material: Zirconia OZ-8C.



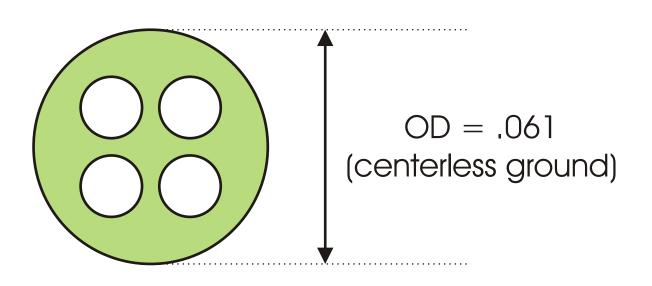
COLOR is LIGHT YELLOW

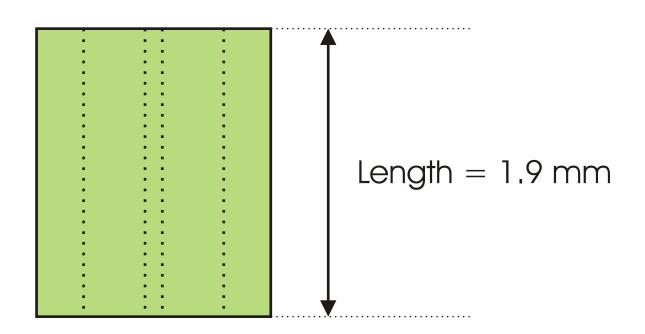
Alumina Part A-4: Sample sleeve for 10/5 assembly Scale 40:1 Material:Alumina



Alumina Part A-5: Thermocouple sleeve for 8/3, 10/5, and 18/12 assemblies. Scale 40:1

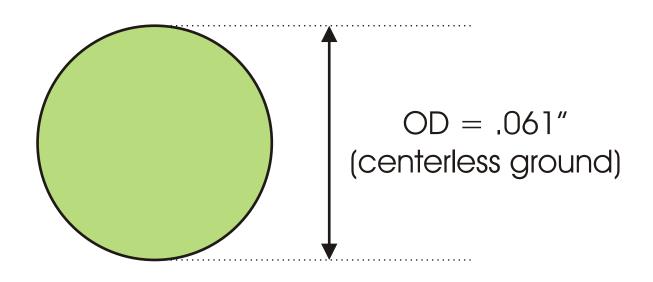
Material: Alumina





Alumina Part A-6: Thin alumina sliver for 8/3 and 1 0/5 assemblies Scale 40:1

Material: Alumina



♦ L = 0.009" (reground)