

## Introducing...

# New Pre-Melted Oxide Evaporants

Rounding out our comprehensive line of thin film products, CERAC now offers a series of pre-melted refractory oxide materials that are ready for immediate use in your evaporation process. These melted materials offer reduced outgassing and spitting, allow for longer coating runs due to the increased density over sintered materials, and deliver cost savings by reducing overall cycle times for customers.

By utilizing a custom long-throw, high power e-beam furnace, CERAC is able to produce melted parts made from our own starting materials. Field support provided by CERAC's Advanced Technology Group offers additional value to customers with specific product or application questions.

Cones, rods discs and pieces are manufactured for all e-beam coating platforms, customized to fit any individual pocket or crucible. Materials currently available include  $\text{Al}_2\text{O}_3$ ,  $\text{HfO}_2$  (white or black),  $\text{Ta}_2\text{O}_5$ ,  $\text{TiO}_2$  and  $\text{ZrO}_2$ .

### 5000 Series

- Pre-melted evaporation cones and discs
- Standard Temescal/Telemark sizes or custom sized to fit your pocket or crucible.
- Rods for continuous processes

### 5500 Series

- Pre-melted pieces, sized to your specifications

### Advantages of Pre-melted Material

- Saves valuable preparation time
- Reduces outgassing and spitting during your production process
- Helps improve your coating yields
- Increased density allows for longer coating runs



*Hafnium oxide,  $\text{HfO}_2$*

Material	Item Number	
	5000 Series	5500 Series
$\text{Al}_2\text{O}_3$	WA-5000	WA-5500
$\text{HfO}_2$ (black or white)	WH-5000	WH-5500
$\text{Ta}_2\text{O}_5$	WT-5001	WT-5501
$\text{TiO}_2$	WT-5003	WT-5503
$\text{ZrO}_2$	WZ-5001	WZ-5501

**Contact us  
about  
availability  
of other  
materials!**



### Full Line of Thin Film Materials

CERAC manufactures a complete line of vacuum deposition materials for optical coating applications including powders, pellets, pieces, tablets, rods, cones, crucibles, evaporation discs and sputtering targets.

Contact a CERAC Sales representative at 414-289-9800 or [info@cerac.com](mailto:info@cerac.com) for additional information on Pre-melted Evaporation Materials.