



OZARK TECHNICAL CERAMICS developed the production of High temperature Hafnium Oxide Insulators to service new advancements in high temperature thermometry. Hafnium Oxide Insulators are also useful as a non-toxic alternative to Beryllium Oxide in existing applications. OZARK Hafnium Oxide Insulators are routinely used for applications to 2200 C. OZARK maintains ten standard configurations as stock items for the convenience of our customers. The following sizes are usually in stock for immediate shipment:

<u>Part No.</u>	<u>O.D.</u>	<u>I.D.*</u>	<u>#holes</u>	<u>1-24 ft</u>	<u>25-99 ft</u>	<u>+100 ft</u>
⊙ HUH2062x015	.062	.015	2	36.00	33.00	30.00
⊙ HUH2075x020	.075	.020	2	36.00	33.00	30.00
⊙ HUH2085x023	.085	.023	2	39.00	33.00	30.00
⊙ HUH2093x024	.093	.024	2	39.00	36.00	33.00
⊙ HUH2110x028	.110	.028	2	42.00	39.00	36.00
⊙ HUH2125x035	.125	.035	2	42.00	39.00	36.00
⊙ HUH2180x045	.180	.045	2	54.00	51.00	48.00
⊙ HUH1062x031	.062	.031	1	42.00	39.00	36.00
⊙ HUH1125x062	.125	.062	1	48.00	45.00	36.00
⊙ HUH1125x085	.125	.085	1	48.00	45.00	36.00

*nominal ID's available in stock may vary. Please specify your requirements if critical.

Custom sizes are available according to the following price schedule. Please allow up to 8 weeks for custom fabrication. Four hole and special configurations must be quoted on a custom basis.

<u>O.D. size range</u>	<u>min order</u>	<u>5-9 ft</u>	<u>10-24 ft</u>	<u>25-99 ft</u>	<u>+100 ft</u>
.030 - .050 O.D.	500.00	65.00	60.00	54.00	50.00
.051 - .100 O.D.	350.00	55.00	50.00	44.00	40.00
.101 - .125 O.D.	400.00	65.00	60.00	54.00	50.00
.126 - .150 O.D.	450.00	75.00	70.00	64.00	60.00
.151 - .180 O.D.	500.00	85.00	80.00	74.00	70.00
> .180	-Inquire- (there are some fabrication limitations at larger sizes)				

Typical specifications for Hafnium Oxide insulators

Purity: HfO ₂ + ZrO ₂ > 99.8%	O.D.: +/- 5%
(ZrO ₂ < 1% typical)	I.D.: +/- 10% (.002" min)
Camber: < .005 mm/mm	
Density: 8.8 - 9.3 gm/cc (90-95% of theoretical)	

Powder pricing (for backfilling)

20 gm	\$15.00
50 gm	\$30.00
100 gm	\$50.00
500 gm	\$200.00

Insulators are supplied in random lengths, normally between 1 and 3 inches. Longer lengths up to 9 inches may be available. OZARK cannot guarantee the squareness or finish of the ends for small sizes or crushable composition. Insulators may also be obtained in soft-fired crushable form, please specify grade CUH.