

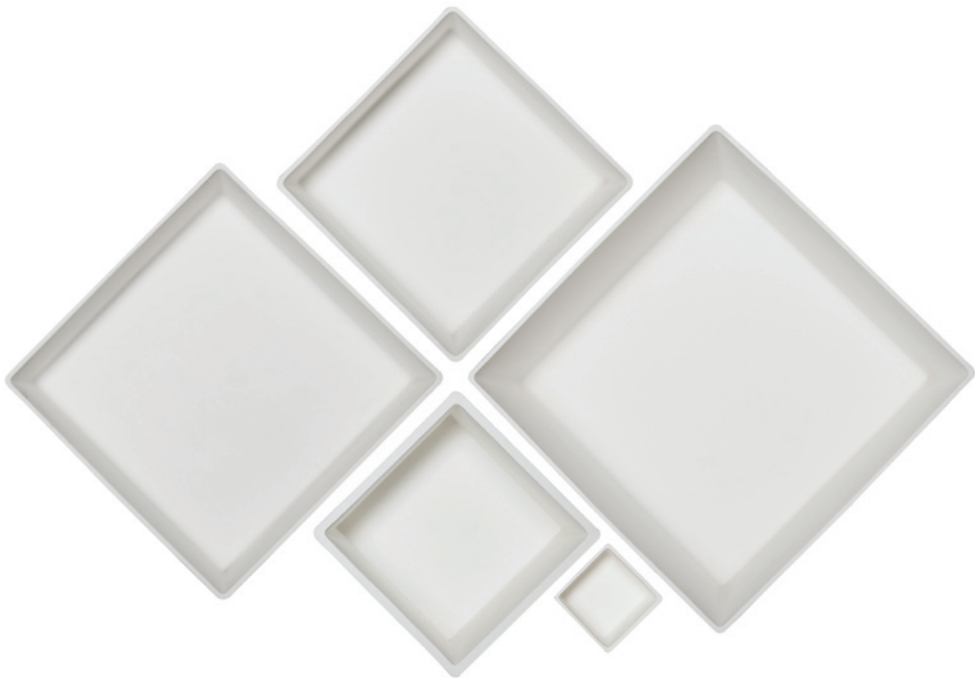


Technical Properties	Units	Typical
Bulk Density	g/cc <sup>3</sup>	1.95
Thermal Expansion Coefficient	E-6/°C	0.47
Thermal Conductivity		
100° C	W/m°K	0.40
500° C	W/m°K	0.56
1000° C	W/m°K	0.84
Crystallinity		>99% Vitreous
Maximum Use Temperature	°C	1650
Modulus of Rupture	MPa	41.1

Typical Crucible Purity (Elemental Basis)					
Si	99.9 %	Cr	0.3 ppm	Ti	65 ppm
Fe	100 ppm	Cu	0.3 ppm	Zr	35 ppm
		Na	10 ppm		

1. Unless otherwise indicated, properties were determined at room temperature.  
 2. The above stated values are typical and are not to be considered as specification values.

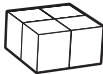
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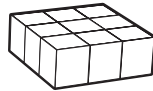
Ceradyne has the capability and flexibility to provide standard or custom size crucibles to meet your specific needs. Sizes from Gen 1 to Gen 6 and beyond are available in heights up to 600mm. Typically, crucibles are produced to make the following common ingot sizes:



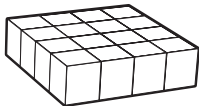
**Gen 1** :: 1 brick



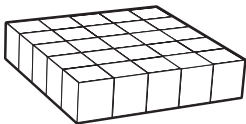
**Gen 2** :: 4 bricks



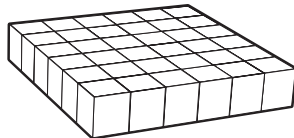
**Gen 3** :: 9 bricks



**Gen 4** :: 16 bricks



**Gen 5** :: 25 bricks



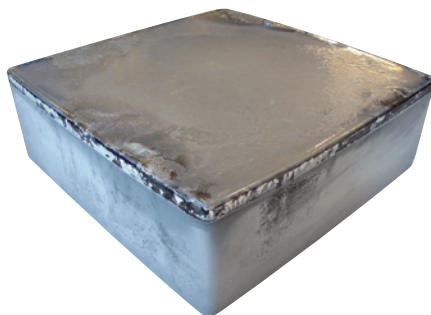
**Gen 6** :: 36 bricks

Crucible sizes are based upon brick sizes of 156 mm x 156 mm

SIZES



Ceradyne coated crucibles offer you consistent performance with crucibles which are ready for use right out of the box. Our proprietary, patent-pending coating, which prevents sticking and ingot fracture, can be applied to any crucible we produce. This helps eliminate inconsistent coating application, resulting in improved ingot consistency and yield.



#### Typical Coating Purity (Elemental Basis)

Cr	1.2 ppm	Fe	10.5 ppm	Ti	0.6 ppm
Cu	12.5 ppm	P	2.9 ppm	Zr	0.3 ppm

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COATED