

Crucibles and Refractories, Shaped to Fit Your Needs



**BC
&R**

**BARTLEY CRUCIBLE &
REFRATORIES, INC.**

Crucible Sizes

Dimensions

Bilge



SIZE	HEIGHT	TOP	BILGE	BOTTOM	FULL CAPACITY (LBS WATER)
0	2 1/16	1 5/8		1 3/16	.05
00	2 5/16	1 7/8		1 7/16	.07
000	2 5/8	2		1 1/2	.10
0000	3 1/16	2 5/8		1 7/8	.16
1	3 13/16	3 5/16		2 3/8	.38
2	4 1/2	3 7/8		2 7/8	.66
3	5 3/16	4 3/8		3 1/16	1.0
4	5 1/2	4 3/4		3 5/16	1.4
5	6 1/16	4 15/16		3 9/16	1.8
6	6 3/4	5 9/16		3 7/8	2.1
8	7 3/16	5 7/8		4 1/2	3.0
10	8 1/18	6 1/4	6 5/8	4 7/8	4.6
12	8 9/16	6 5/8	6 7/8	5 5/16	5.3
14	9	6 3/4	7 1/8	5 3/8	6.1
16	9 5/16	7 1/8	7 3/8	5 1/2	6.9
18	9 3/4	7 1/2	8	5 7/8	8.2
20	10 5/16	7 13/16	8 1/2	6 1/8	9.6

Crucible Composition and Data

Composition	Bulk Den g/cc	Por. %	Relative Therm. Shock Resistance	Approximate Chemical Composition, %							
				SiO2	Al2O3	TiO2 Fe2O3	CaO MgO	K2O Na2O	ZrO2 Y2O3	SiC	Free Carbon
65% Fused Silica	1.7	26	Excellent	85.1	12.5	0.7	1.0	0.7			
61% Fused Silica	1.7	26	Excellent	76.9	21.4	1.0	0.4	0.3			
78% Fused Silica	1.7	26	Excellent	89.6	9.7	0.5	0.2				
99% Fused Silica	2.0	10	Excellent	99.8	0.1	0.1					
66% Mullite	2.0	32	Fair	45.5	51.1	1.4	1.1	0.9			
84% Alumina	2.5	27	Good	14.5	84.0	0.5	0.2	0.8			
88% Alumina	2.6	27	Good	10.6	88.2	0.5		0.7			
99% Alumina	3.2	16	Fair		99.7	0.1		0.2			
90% Zircon	3.7	18	Good	32.4	3.8	0.5	0.5	0.1	62.7		
99% Zircon	3.5	18	Good	32.8	0.5	0.1			66.6		
Zirconia	4.5	22	Fair	1.2	0.4	0.3	1.5		96.6		
Silicon-Carbide	2.1	25	Good	15.6	10.1	0.6	0.2	0.5		72.5	0.5
Graphite- Clay	1.7	24	Excellent	25.2	13.4	1.7	0.5	1.3		19.5	38.4
Magnesia	2.3	33	Fair	8.7	3.9	0.6	86.7	0.1			

Notice: The data is based on various sources including our own measurements and estimates of experience, but we do not guarantee the applicability, completeness or accuracy of the information. Users should make their own tests to determine the suitability of any product for their application.