

Standard Sizes

Part Number	*Approx. Capacity	Dimensions Inches	OD x ID x HT mm	Features
S-1-3.6	1	1.8 x 1.5 x 3.6	46 x 38 x 91	A
S-2-3.2	2	2.4 x 2.0 x 3.2	61 x 51 x 90	A
S-2-3.6	2	2.4 x 2.0 x 3.6	61 x 51 x 91	A
S-3-4.3	3	2.8 x 2.2 x 4.3	71 x 56 x 109	A
S-3-5.6	4	2.8 x 2.2 x 5.6	71 x 56 x 142	A
S-1344-5.9	6	3.0 x 2.5 x 5.9	76 x 64 x 149	A
S-1344-8.7	10	3.0 x 2.5 x 8.7	76 x 64 x 221	A
S-5-4.3	4	3.4 x 2.6 x 4.3	86 x 66 x 109	A
S-5-6.0	7	3.4 x 2.6 x 6.0	86 x 66 x 152	A
S-1510-5.1	9	3.9 x 3.3 x 5.1	99 x 84 x 130	A
S-1510-6.1	10	3.9 x 3.3 x 6.1	99 x 84 x 155	A
S-1510-6.7	11	3.9 x 3.3 x 6.7	99 x 84 x 170	A
S-2668-5.1	8	3.9 x 3.3 x 5.1	99 x 84 x 130	B
S-2668-6.1	10	3.9 x 3.3 x 6.1	99 x 84 x 155	B
S-2668-6.7	12	3.9 x 3.3 x 6.7	99 x 84 x 170	B
S-907-4.2	7	4.4 x 3.7 x 4.2	112 x 94 x 107	A
S-17-6.0	13	4.4 x 3.7 x 6.0	112 x 94 x 152	A
S-17-6.5	15	4.4 x 3.7 x 6.5	112 x 94 x 165	A
S-17-7.0	16	4.4 x 3.7 x 7.0	112 x 94 x 178	A
S-17-8.0	19	4.4 x 3.7 x 8.0	112 x 94 x 203	A
S-17-9.0	22	4.4 x 3.7 x 9.0	112 x 94 x 229	A
S-17-10.0	25	4.4 x 3.7 x 10.0	112 x 94 x 254	A
S-17-11.0	28	4.4 x 3.7 x 11.0	112 x 94 x 279	A
S-2609-7.5	16	4.4 x 3.7 x 7.5	112 x 94 x 191	C
S-2609-8.0	17	4.4 x 3.7 x 8.0	112 x 94 x 203	C
S-2609-10.0	23	4.4 x 3.7 x 10.0	112 x 94 x 254	C
S-2082-7.5	17	4.4 x 3.7 x 7.5	112 x 94 x 191	B
S-2082-8.0	19	4.4 x 3.7 x 8.0	112 x 94 x 203	B
S-2082-10.0	25	4.4 x 3.7 x 10.0	112 x 94 x 254	B
S-2577-8.0	18	4.4 x 3.7 x 8.0	112 x 94 x 203	D
S-2558-7.8	17	4.4 x 3.7 x 7.8	112 x 94 x 198	E
S-26-7.9	25	5.1 x 4.3 x 7.9	130 x 109 x 201	A
S-26-9.8	32	5.1 x 4.3 x 9.8	130 x 109 x 249	A
S-2686-7.8	27	5.1 x 4.3 x 7.8	130 x 109 x 198	B
S-2686-9.8	34	5.1 x 4.3 x 9.8	130 x 109 x 249	B
S-30-6.1	23	5.8 x 4.9 x 6.1	147 x 124 x 155	A
S-30-9.8	42	5.8 x 4.9 x 9.8	147 x 124 x 249	A
S-30-11.0	49	5.8 x 4.9 x 11.0	147 x 124 x 279	A
S-30-11.5	51	5.8 x 4.9 x 11.5	147 x 124 x 292	A
S-2804-6.1	21	5.8 x 4.9 x 6.1	147 x 124 x 155	B
S-2804-9.8	40	5.8 x 4.9 x 9.8	147 x 124 x 249	B
S-2804-11.0	45	5.8 x 4.9 x 11.0	147 x 124 x 279	B
S-2804-11.5	48	5.8 x 4.9 x 11.5	147 x 124 x 292	B
S-2156-10.0	40	5.8 x 4.9 x 10.0	147 x 124 x 254	B
S-2156-10.6	43	5.8 x 4.9 x 10.6	147 x 124 x 269	B
S-50-9.7	53	6.5 x 5.5 x 9.7	165 x 140 x 246	A
S-50-11.0	61	6.5 x 5.5 x 11.0	165 x 140 x 279	A
S-50-13.0	74	6.5 x 5.5 x 13.0	165 x 140 x 330	A
S-2828-9.7	48	6.5 x 5.5 x 9.7	165 x 140 x 246	B
S-2828-11.0	56	6.5 x 5.5 x 11.0	165 x 140 x 279	B
S-2828-13.0	69	6.5 x 5.5 x 13.0	165 x 140 x 330	B
S-2149-11.0	56	6.5 x 5.5 x 11.0	165 x 140 x 279	B
S-2149-13.0	69	6.5 x 5.5 x 13.0	165 x 140 x 330	B
S-100-9.0	82	8.2 x 7.2 x 9.0	208 x 183 x 229	A
S-100-11.0	104	8.2 x 7.2 x 11.0	208 x 183 x 279	A
S-100-12.5	122	8.2 x 7.2 x 12.5	208 x 183 x 318	A
S-2838-9.0	71	8.2 x 7.2 x 9.0	208 x 183 x 229	B
S-2838-11.0	94	8.2 x 7.2 x 11.0	208 x 183 x 279	B
S-2838-12.5	111	8.2 x 7.2 x 12.5	208 x 183 x 318	B
S-105-13.0	113	7.5 x 6.5 x 13.0	191 x 165 x 330	A
S-105-15.0	134	7.5 x 6.5 x 15.0	191 x 165 x 381	A
S-2308-10.2	78	7.5 x 6.5 x 10.2	191 x 165 x 256	B

Part Number	*Approx. Capacity	Dimensions Inches	OD x ID x HT mm	Features
S-2308-13.0	108	7.5 x 6.5 x 13.0	191 x 165 x 330	B
S-2308-15.2	130	7.5 x 6.5 x 15.2	191 x 165 x 386	B
S-150-14.6	181	9.5 x 8.0 x 14.6	241 x 203 x 371	A
S-150-16.5	208	9.5 x 8.0 x 16.5	241 x 203 x 419	A
S-2839-14.6	163	9.5 x 8.0 x 14.6	241 x 203 x 317	B
S-2839-16.5	190	9.5 x 8.0 x 16.5	241 x 203 x 419	B
S-2840-19.0	207	9.0 x 8.0 x 19.0	228 x 203 x 483	B
S-2916-7.5	104	11.8 x 10.2 x 7.5	300 x 259 x 191	B
S-2916-15.0	275	11.8 x 10.2 x 15.0	300 x 259 x 381	B
S-2916-17.6	334	11.8 x 10.2 x 17.6	300 x 259 x 447	B
S-2916-18.9	364	11.8 x 10.2 x 18.9	300 x 259 x 480	B
S-2916-19.5	377	11.8 x 10.2 x 19.5	300 x 259 x 495	B

* 1" below the lip of the crucible using carbon steel, density of 0.280 lbs/in³

Features Legend

Feature	Description
A	Flat Bottom
B	Round Bottom
C	Drill Start on Bottom
D	External Pouring Spout
E	Internal Pouring Spout

Ready to Assist You

Need more help, or have a specialized need? Other custom size crucibles are available. Our application engineers are ready to assist you select the best crucible for your particular application.



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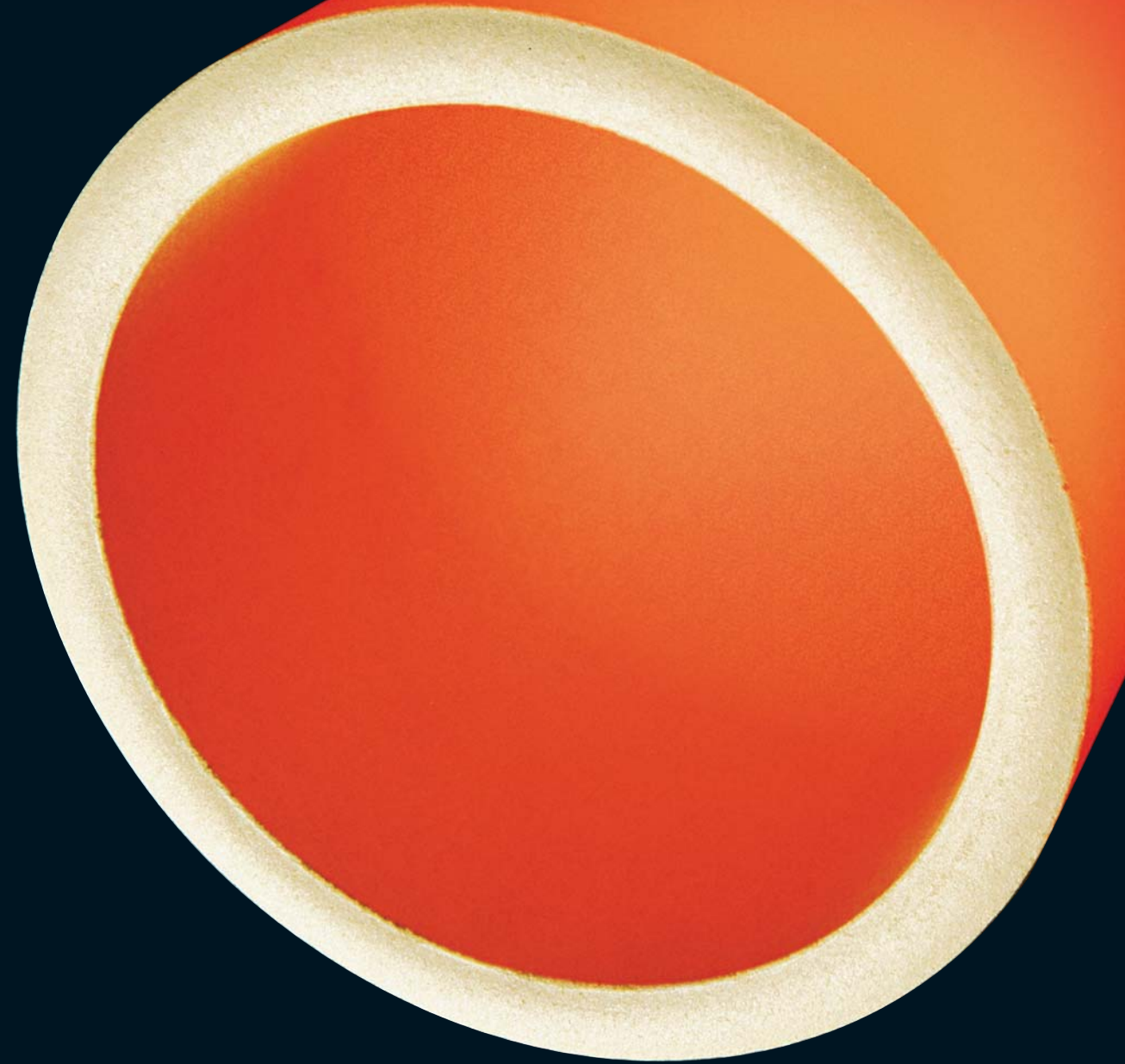
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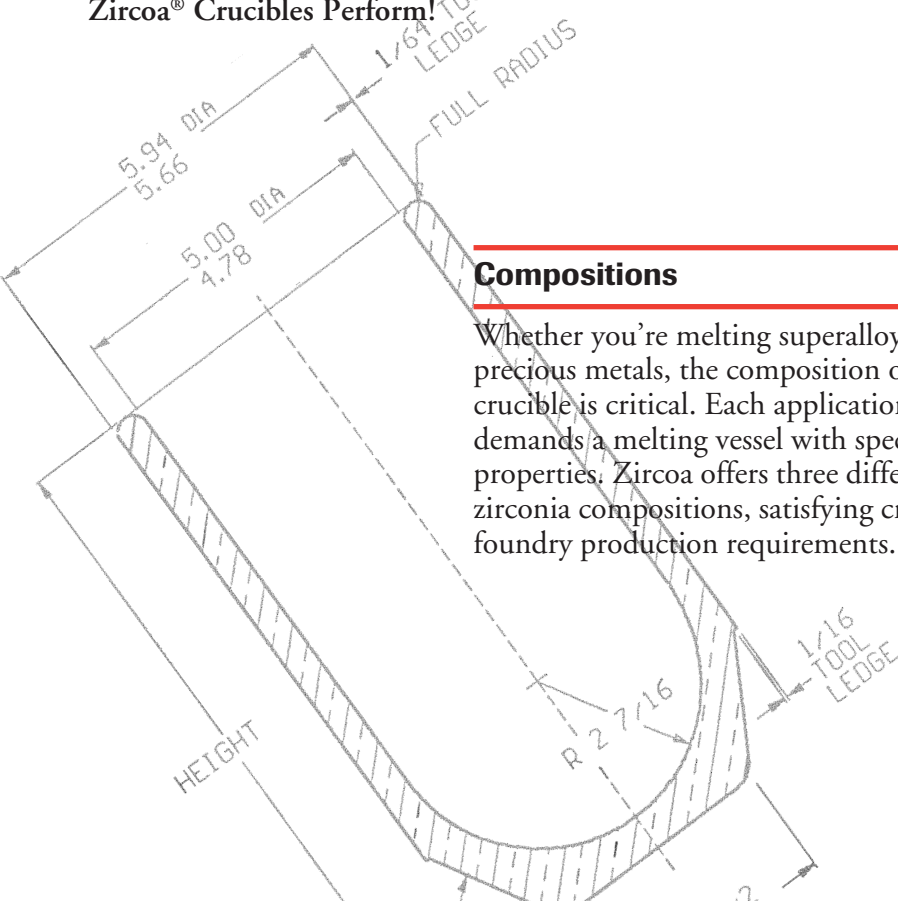
Crucibles



For Increased Productivity & Cleaner Melts

Consistency

... is what makes our crucibles the performance leader. At temperatures up to 1800°C and beyond, you get cleaner melts and castings, with heat-up and cool-down schedules that keep your foundry productive. For immediate delivery, we inventory the most common crucible sizes, with configurations to suit your particular needs. From superalloys to the melting of precious metals ... **Zircoa® Crucibles Perform!**



Compositions

Whether you're melting superalloys or precious metals, the composition of the crucible is critical. Each application demands a melting vessel with specific properties. Zircoa offers three different zirconia compositions, satisfying critical foundry production requirements.

3001 — Superalloy Applications

Composition 3001 is a magnesia stabilized zirconia. This composition exhibits superior resistance to thermal shock and erosion. It has low thermal expansion properties and excellent non-wetting characteristics.

1651 — Special Applications

When your process is sensitive to magnesia, and a higher thermal expansion is acceptable, composition 1651 makes an excellent substitute for 3001. Composed of calcia stabilized zirconia, 1651 displays a superior resistance to erosion and spalling, with good thermal shock properties.

2004 — Platinum Group Metals Applications

When glassy or siliceous slags are present in your melt, composition 2004 is the solution. Composition 2004 crucibles are often used for melting platinum-group alloys. Their strength and resistance to high temperature makes them right for those special "dirty refining" applications. These crucibles are made from a higher quality zircon material than standard zircon crucibles, providing superior performance and extended life.



Regardless of the composition, when specifying Zircoa crucibles, you'll find our forming process results in crucibles with minimal density variations, consistent overall dimensions, and clean exterior lines.

Typical Chemical Analysis

Element	Compositions			Crucible Backup 1859
	3001	1651	2004	
MgO	2.2	0.6	0.2	4.50
CaO	0.2	3.6	0.3	0.25
Al ₂ O ₃	0.7	0.8	0.2	0.20
TiO ₂	0.2	0.3	0.2	0.20
Fe ₂ O ₃	0.2	0.25	0.2	0.60
SiO ₂	1.2	0.8	33.0	94.25
ZrO ₂	95.3	93.65	65.9	

Physical Properties

	Compositions		
	3001	1651	2004
Density	4.5g/cc	4.3g/cc	3.6g/cc
Porosity	18%	25%	13%
MOR @R.T.	3500psi	2400psi	N.A.

For Even Longer Crucible Life

Zirconia is one of the best commercially available insulating materials. It has approximately 5 times the insulating value of alumina or magnesia. Using 1859 Crucible Backup will extend crucible life and result in cleaner melts.