



PRODUCT BULLETIN

ZIRCONIUM CRUCIBLES

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The remarkable corrosion resistant qualities of Zirconium are beginning to be used extensively in the Chemical Processing Industry. Zirconium will withstand a wider range of caustics and acids to a greater degree than any other commonly used fabricating material.

Zirconium Crucibles

It is no secret that zirconium crucibles cost more than porcelain, steel or nickel. Quite a bit more. But, based on an average number of fusions which can be made in a zirconium crucible, as opposed to those of nickel, the ratio of longevity stands at 20 to 1. Therefore, the higher cost of zirconium crucibles is recovered three times over. In addition to cost effectiveness, zirconium crucibles hold several advantages over other materials. If compared to platinum, several distinct advantages are readily apparent.

1. Improper procedure in heating over a Bunsen burner can cause the reducible contents to be converted into harmful, low-fusing metals which may react with the platinum.
2. No platinum tipped tongs or special triangles are required for handling hot zirconium crucibles.
3. Sudden contact with cold, metallic surfaces will have no deleterious effects on a zirconium crucible.
4. Hydrofluoric acid is the only cleaning agent which should not be used to clean zirconium crucibles.
5. Smoothing and shaping after use is not a special consideration. Zirconium crucibles require a minimum of specialized care.
6. The inherent strength of zirconium precludes the necessity of reinforced rims and thicker bottoms as is the case of platinum in certain instances.



HIGH FORM



LOW FORM



STRAIGHT WALL

Capacity	Diameter	Height	Diameter	Height	Weight	Crucible Catalog Number	Cover Catalog Number	
ml	mm	mm	inches	inches	grams			
5	21	18	.84	.71	7	10-5 SW	10-50	Straight Wall Crucibles
10	27	22	1.06	.87	10	10-10 SW	10-100	
20	33	29	1.30	1.14	18	10-20SW	10-200	
15	33	22	1.30	.87	14	10-15 SW	10-150	
25	45	22	1.80	.87	20	10-25 SW	10-250	
35	46	29	1.81	1.14	25	10-35 SW	10-35 C	
45	46	34	1.81	1.34	30	10-45SW	10-450	
55	47	41	1.85	1.61	35	10-55SW	10-550	
75	51	41	2.00	1.61	40	10-75SW	10-750	
100	59	45	2.32	1.77	53	10-100SW	10-1000	
250	82	59	3.23	1.97	100	10-250 SW	10-250 C	
500	101	65	4.01	2.56	165	10-500SW	105000	
1000	127	89	5.00	3.50	265	10-1000SW	10-10000	

Capacity	Top Diameter	Bottom Diameter	Depth	Top Diameter	Bottom Diameter	Depth	Weight	Crucible Catalog Number	Cover Catalog Number	
ml	mm	mm	mm	inches	inches	inches	grams			
15	33	25	23	130	98	90	14	10-15LF	10-150	Low Form Crucibles
20	33	25	30	130	98	130	18	10-20LF	10-200	
25	45	38	23	180	150	90	20	10-25LF	10-25C	
35	48	38	30	181	150	118	25	10-35LF	10-350	
	46	38	35	181	150	138	30	10-45LF	10-450	
	47	38	43	185	150	169	35	10-55LF	10-550	
75	51	41	43	200	161	169	40	10-75LF	10-750	
100	59	50	46	2.32	1.97	1.81	53	10-100LF	10-1000	
250	82	66	60	3.23	2.60	2.36	100	10-250LF	10-2500	
500	102	89	66	4.01	3.50	2.60	165	10-500LF	10-5000	

Standard thickness .035 inches.
 All above sizes, weights and capacities are approximate.