

Alpha

Introduction & application

Alphas are black, rib formed Clay/Graphite crucibles. They are suitable for all furnace systems of non-ferrous metal alloys and precious metals. These have been developed with a specific modified electrical resistivity which optimises the coupling power of the crucible and avoids the risk of overheating.

Typical Metal Casting Temperature

700°C - 1400°C

Performance Characteristics

- High refractoriness ensures perfect applications for holding furnaces where maintaining metal temperature without leading to heat loss is a must
- Good resistance to chemical corrosion ensures application in the most aggressive of environments
- Good thermal shock resistance
- High mechanical strength guarantees robust usage
- Good oxidation resistance

Identification

These crucibles can be identified by their black color.

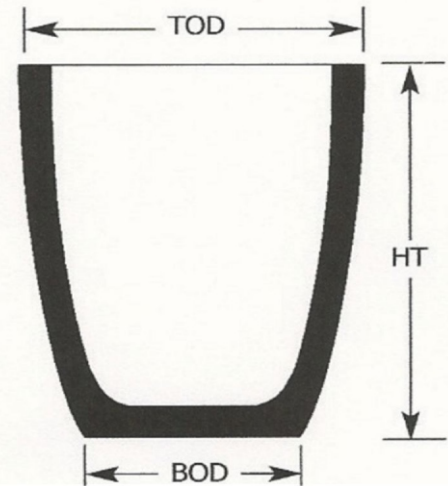


Please turn over for detailed range of shapes and sizes.

Alpha

Red Diamond "Alpha" A Shape (Clay Graphite Crucibles)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY Water Litres
A 16	A&0200H0240	240	200	145	4.02
A 18	A&0210H0250	250	210	150	5.46
A 20	A&0225H0260	260	225	150	5.84
A 25	A&0220H0279	279	220	135	5.50
A 30	A&0230H0290	290	230	140	6.05
A 35	A&0255H0300	300	255	152	8.00
A 40	A&0260H0310	310	260	152	8.33
A 50	A&0270H0330	330	270	195	8.60
A 60	A&0285H0345	345	285	200	9.77
A 70	A&0300H0360	360	300	215	12.20
A 80	A&0305H0375	375	305	215	12.40
A 90	A&0320H0380	380	320	240	15.70
A 100	A&0325H0400	400	325	240	16.50
A 120	A&0345H0410	410	345	245	20.10
A 150	A&0367H0465	465	367	259	26.60
A 200	A&0400H0500	500	400	285	33.50
A 250	A&0420H0550	550	420	295	40.37
A 325	A&0445H0585	585	445	335	50.40
A 350	A&0475H0600	600	493	330	63.47
A 355	A&0519H0600	600	519	343	70.27
A 400	A&0519H0650	650	519	343	77.75
A 500	A&0519H0700	700	519	343	85.40
A 1100	A&0650H0900	900	650	400	161.40
A 1300	A&0650H1100	1100	650	400	186.80
A 1500	A&0715H0950	950	715	370	205.70
A 2500	A&0742H1080	1080	742	370	246.80



Notes :

- Our crucibles are recommended for nonferrous alloys except those containing more than 30% of Nickel, Chromium or Iron.
- Crucible Working capacity = 90% of (Water liter capacity x Specific gravity of the metal)

Specific gravity of various metals are as below:

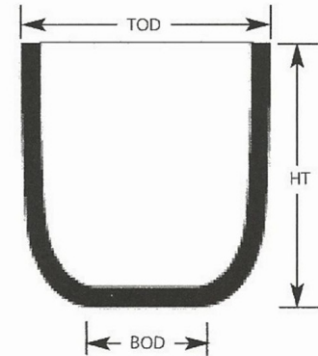
Aluminium = 2.72	Silver = 10.5
Brass = 8.35	Zinc = 7.12
Copper = 8.9	Iron = 7.85
Gold = 19.3	

All dimensions are subject to normal manufacturing tolerances. Morgan reserves the right to change specifications at any time

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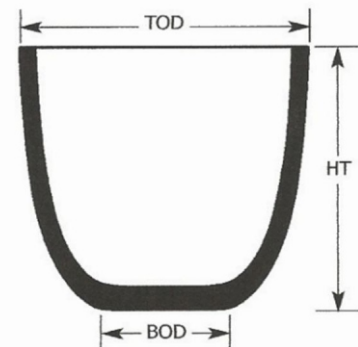
Red Diamond "Alpha" B Shape (Clay Graphite Crucibles)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY Water Litres
B 212	B&0600H0550	550	600	254	86.62
B 225	B&0600H0630	630	600	254	107.00
B 250	B&0650H0630	630	650	254	135.80
B 300	B&0650H0700	700	650	254	146.80
B 350	B&0650H0800	800	650	254	164.00
B 375	B&0700H0530	530	700	260	120.15
B 400	B&0700H0700	700	700	260	158.69



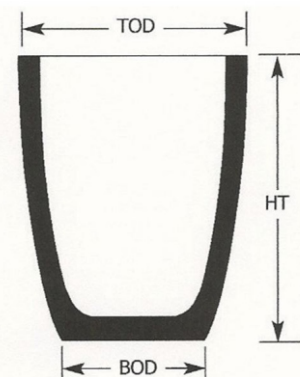
Red Diamond "Alpha" BU Shape (Clay Graphite Crucibles)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY Water Litres
BU 225	BU0615H0630	630	615	356	109.60
BU 250	BU0615H0660	660	615	356	115.00
BU 300	BU0615H0700	700	615	356	125.00
BU 350	BU0615H0800	800	615	356	145.50
BU 500	BU0775H0750	750	775	420	199.25
BU 550	BU0775H0800	800	775	420	221.80
BU 600	BU0775H0900	900	775	420	250.49
BU 700	BU0775H1000	1000	775	420	277.77
BU 750	BU0950H0790	790	950	500	319.13
BU 1000	BU0950H1050	1050	950	500	466.71
BU 1000L	BU0960H1050	1050	960	500	470.00



Red Diamond "Alpha" TP Shape (Without Spout) (Clay Graphite Crucibles)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY Water Litres
TP 901	P&0292H0762	762	292	235	26.30
TP 904	P&0354H0914	914	354	254	43.80
TP 8	P&0440H0815	815	440	295	70.90
TP 10	P&0440H0940	940	440	295	82.80
TP 14	P&0440H1016	1016	440	295	89.40
TP 830	P&0540H1160	1160	540	370	155.00

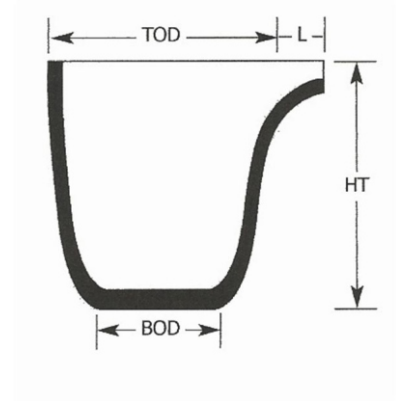


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Red Diamond "Alpha" TP Shape (With Spout)
(Clay Graphite Crucibles)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY Water Litres
TP 162	P&0300H0489T-LAIH200	460	302	217	15.60
TP 173	P&0300H0489T-LAIH200	489	300	237	16.09
TP 400	P&0360H0613T-LAI300	613	360	240	29.01
TP 600	P&0365H0807T-LAI300	807	365	248	43.55
TP 325	P&0421H0672T-LAI300	672	421	254	45.00
TP 982	P&0440H0800T-LAI300	800	440	295	72.30
TP 287	BU0527H0600T-LAI300	600	527	305	77.48
TP 12	P&0440H0940T-LAI300	940	440	295	82.80
TP 387	BU0615H0630T-LAI300	630	615	356	115.24
TP 412	BU0615H0800T-LAI300	800	615	356	147.40
TP 587	BU0775H0889T-LAIB410	889	775	420	250.49
TP 987	BU0950H1050T-LAIA450	1050	950	500	466.71



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