



VESUVIUS
A VESUVIUS GROUP COMPANY



MANUFACTURED
IN INDIA

Crucibles

PRODUCT CATALOGUE

Advanced Thinking in Crucibles and Foundry Products

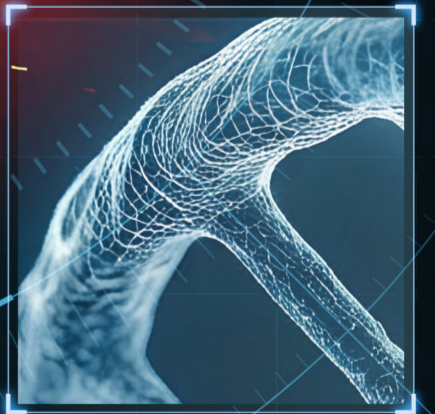




Table of Contents

Iso-Pressed Crucibles6

SIGMA8

AI Shape (small crucibles) 8

AI Shape (big iso-static crucibles) 9

BUI Shape 12

TPI Shape 12

TPI Shape (with spout) 13

TPNI Shape (with spout) 13

BNI Shape 14

Cylindrical Crucible For Induction Furnace Application 14

Stand (cylinder type) 15

SYNCARB Z2e216

BUI Shape 17

BNI Shape 17

TPNI Shape (with spout) 17

VALuStar™18

BUI Shape 19

BNI Shape 19

TPNI Shape (with spout) 19

ULTRAMELT20

AI Shape 21

BUI Shape 21

BNI Shape 21

Cylindrical Crucible 21

TPNI Shape (with spout) 21

SUPREX22

A Shape. For lift out & bale out furnaces 24

TP Shape. For over top crucibles for tilting furnaces 25

Basin (with spout). For tilting furnaces 25

TP Shape (with spout). For tilting furnaces 25

BC Shape. For bale out furnaces 26

Muffle Rings 27

Cylindrical Crucible. For Induction Furnaces 27

Cylindrical Crucible (with spout) 28

L Shape (with spout) 28

L Shape 28

Accessories for Silicon Carbide Crucibles Stands 29

SALAMANDER EXCEL & HIMELT30

A Shape 31

Cylindrical Crucible. For Induction Furnaces 32

C Shape 32

Cylindrical Crucible (with spout) 33

TPX Shape. For tilting furnaces 33

TPX Shape (with spout). For tilting furnaces 34

BX Shape. For bale out furnaces 35

Cylindrical Crucible 36

SALAMANDER SUPER36

A Shape 37

A Shape 37

E Shape Cylindrical Crucible 38

ALPHA39

A Shape 40

B Shape 40

BU Shape 41

LB Shape 41

Base Blocks42

Inside Coatings44

Crucible Handling46

Metal & Casting Temperatures

	Zinc		Aluminum		Aluminum Alloy		Silver Brass ZnO	Copper Gold Bronze	Gun Metal		Cupronickel		Iron & Steel
	400°C	500°C	600°C	700°C	800°C	900°C	1000°C	1100°C	1200°C	1300°C	1400°C	1600°C	
Sigma E Plus	Electric Resistance & Fuel Fired												
Sigma HT						Fuel Fired							
Sigma E				Fuel Fired									
Syncarb Z2e2	Electric Resistance & Gas Fired												
VALuStar™			Electric Resistance & Gas Fired										
Suprex B				Coal & Oil Fired									
Suprex R			Fuel Fired										
Suprex E			Electric Resistance only for Holding										
Suprex E Plus			Electric Resistance & Gas Fired										
Alpha	More Suitable for Laddle												
Salamander Super						Fuel Fired & Induction							
Ultramelt			Fuel Fired										
Excel						More Suitable for Induction Furnace/Fuel Fired							
Himelt							Fuel Fired						
Excel E			Electric Resistance & Gas Fired										



Iso-Pressed Crucibles

Iso-pressed crucibles are a high-performance, premium-quality range of clay-bonded silicon carbide-graphite crucibles.

Manufactured using advanced isostatic pressing technology, they combine carefully selected export-grade raw materials with an ISO 9001:2015 certified quality management system to ensure consistent performance and reliability.

Sigma-E Plus



Sigma HT



Sigma E



VALuStar™



Syncarb Z2e2



Induction Crucibles



Sigma Brands	Application	Suitable Furnace	Operating Temperature	Performance Characteristics	Identification
Sigma-E Plus	Aluminium, Zinc & its alloys (Melting)	Electric Resistance & Fuel Fired	450–950°C	- Very good oxidation resistance - Excellent thermal shock resistance - Very good erosion resistance	Grey with top rim in green (suffix 'E Plus')
Sigma HT	Aluminium, Zinc & its alloys, Cast Iron (Melting)	Coke, Oil & Gas	900–1600 °C	- Good oxidation resistance - Good resistance to chemical attack - Excellent performance in high temperature applications	Dark grey (suffix 'HT')
Sigma E	Aluminium Scrap (Melting)	Fuel Fired	700–1400 °C	- Very good thermal conductivity - High mechanical strength - Excellent resistance to chemical attack	Dark grey (suffix 'E')
VALuStar™	Aluminium (Melting & Holding)	Gas Fired & Electric Resistance	700 – 1000 °C	- Significantly longer life due to higher oxidation resistance. - Excellent thermal conductivity and good thermal shock resistance. - High mechanical strength. and good erosion resistance.	VALuStar™ crucibles are finished with a blue Low Temperature Protection (LTP) coating.
Syncarb Z2e2	Aluminium (Melting & Holding)	Gas Fired & Electric Resistance	400–1000 °C	- High thermal conductivity & very high energy efficiency - Superior oxidation resistance - High mechanical strength & good erosion resistance	Syncarb Z2e2 crucibles are finished with a gray Low Temperature Protection (LTP) coating.

Preheating Recommendations

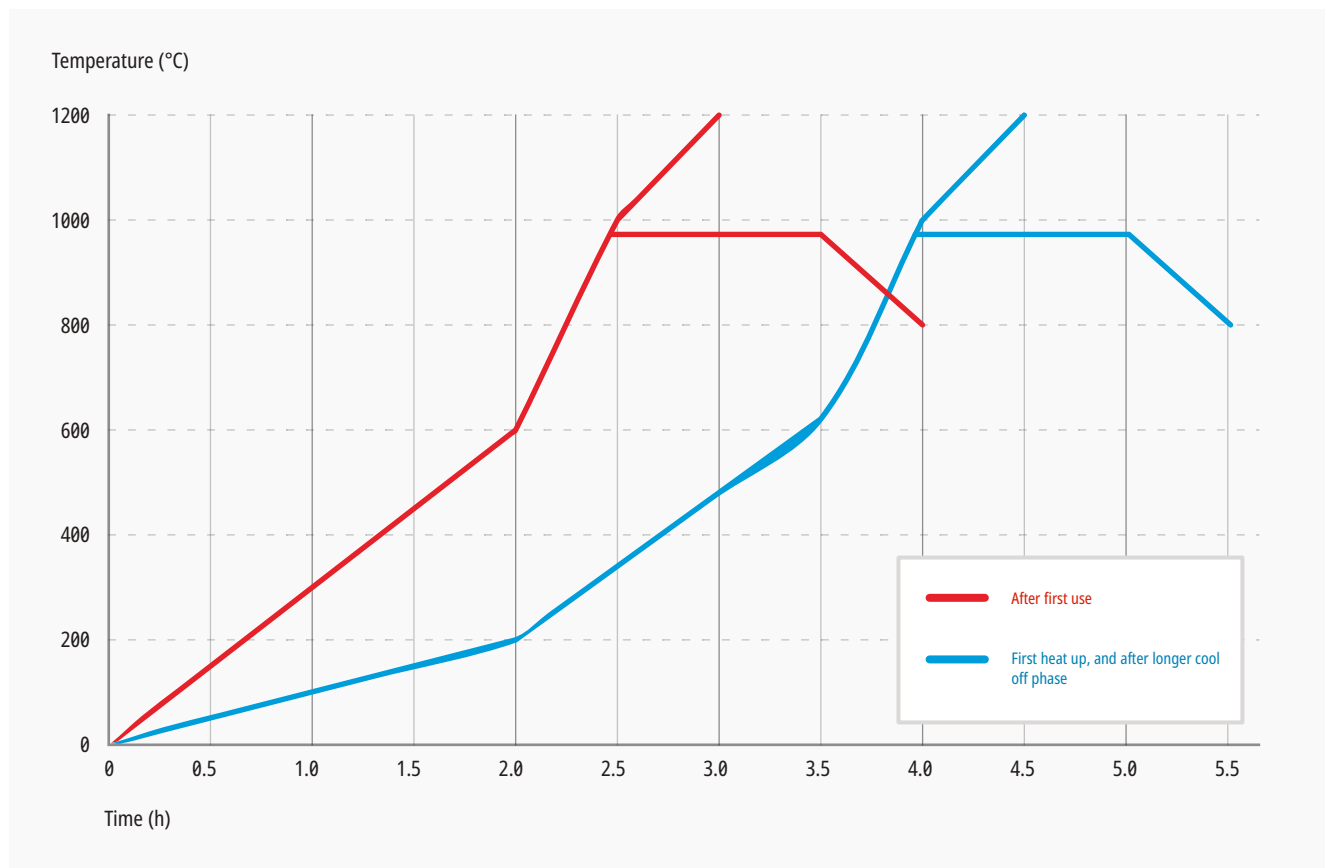
Clay Graphite Crucibles

Preheating Cycle

- The crucible, after being installed in the furnace should be heated up slowly to a temperature of 200°C (392°F) over a period of 2 hours, to eliminate any moisture that may be present.
- Next, these crucibles should be heated up to a temperature of 600°C (1112°F) on low power, before the full heating rate is used to reach 950°C (1742°F).
- Clay Graphite crucibles used in a melting operation can be continuously heated up on full power until working temperature is reached. The crucible is then ready to be charged with care.
- When using Clay/Graphite crucibles for holding, the temperature of 950°C (1742°F) should be reached and held for approximately 1 hour. This ensures even melting of the glaze with the additional antioxidation coating, which is essential to achieve the maximum possible crucible life.

Note

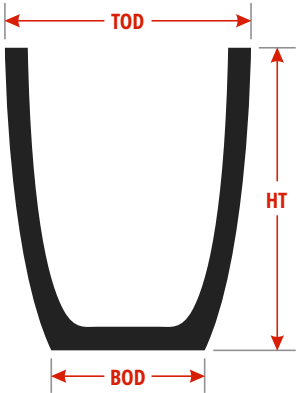
- For holding crucibles this procedure should be carried out periodically, but always before starting up again after a cool down period. This helps to compensate for the negative effects of low holding temperatures.
- Each time the crucible is heated up after a cooling down phase, it should be heated following the procedure laid down for the first installation. However, the drying time of 2 hours can be omitted. Should the Silicon Carbide or Clay Graphite crucible not be used for a long period, it will be necessary to eliminate moisture, which may have been absorbed from slag. In this case, the crucible should be heated up to a temperature of 200°C (392°F). After reaching this temperature, further heating should be continued as per the first installation.
- The above recommendations refer to the use of new crucibles in existing furnaces. When installing a new Silicon Carbide crucible into a new furnace, the heating and drying instructions of the furnace manufacturer should be followed. If the furnace manufacturer prescribes a longer heating cycle (or curve), this procedure should be carried out without the crucible. It is essential that the crucible is installed in an absolutely dry furnace.



AI Shape (small crucibles)

Sigma

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
AI 0.5	80	74	50	0.2
AI 1	95	92	65	0.3
AI 1.4	110	94	54	0.3
AI 2	120	110	75	0.6
AI 3	135	120	80	0.7
AI 3.1	130	110	70	0.5
AI 4	155	140	100	1.0
AI 4.1	140	115	75	0.7
AI 4.2	141	115	75	0.6
AI 5	165	140	100	1.0
AI 5.1	150	125	85	1.0
AI 5.2	155	127	87	1.0
AI 6	175	140	100	1.0
AI 6.1	165	106	90	1.0
AI 6.2	165	130	90	1.0
AI 8	180	155	105	2.0
AI 10	200	175	120	2.0
AI 10.1	205	162	115	2.0
AI 12	210	175	120	3.0
AI 14	225	175	120	3.0
AI 15	200	200	120	3.0
AI 16	230	200	120	4.0
AI 16L	235	215	130	4.0
AI 18	250	215	130	4.0
AI 18L	260	220	140	5.0
AI 20	265	230	140	5.0
AI 25	280	230	140	6.0
AI 30	280	255	165	8.0
AI 32	340	245	175	8.0
AI 32(S)	325	245	175	8.0
AI 34	360	245	175	8.0
AI 35	300	268	185	9.0
AI 40	315	268	185	9.0
AI 41	330	268	185	10.0
AI 42	355	270	185	11.0
AI 50	330	305	195	11.0
AI 50TW	340	288	195	12.0
AI 55	350	305	195	12.0
AI 60	375	307	195	12.0
AI 70	385	325	210	15.0
AI 80	410	325	210	16.0



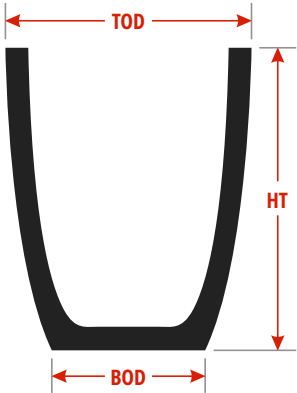
Note
Crucible working capacity: 90%
of (Water liter Capacity x Specific gravity of the metal)

Specific gravity of various metals are as below:
Brass 8.35 Gold 19.30 Zinc 7.12
Copper 8.90 Silver 10.50 Iron 7.85

AI Shape (small crucibles)

Sigma

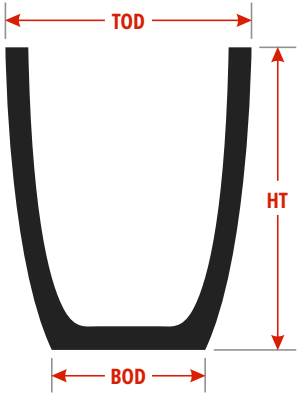
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
AI-1.1	97	79	55	0.2
AI-1.2	100	80	54	0.2
AI-1.9	125	104	65	0.4
AI-1/0	72	60	42	0.1
AI-1/2	80	74	50	0.1
AI-1/4	75	65	45	0.1
AI-2.1	110	105	65	0.4
AI-2/0	57	52	36	0.04
AI-3/0	54	48	32	0.03
AI-4/0	51	41	27	0.02
AI-5/0	35	32	25	0.01
AI-6/0	29	25	19	0.01
AI-22	272	225	140	5.7
AI-26	290	225	140	6.2



AI Shape (big iso-static crucibles)

Sigma

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
AI 85	430	325	210	17
AI 86	410	330	227	18
AI 90	404	350	240	21
AI 100	410	350	240	21
AI 110	420	350	240	22
AI 120	435	350	240	23
AI 120 L	450	350	245	23
AI 125	420	380	240	24
AI 135	450	380	240	25
AI 150	475	380	240	27
AI 151	485	380	240	27
AI 180	500	380	240	29
AI 180 L	522	380	240	34
AI 185	500	430	260	34



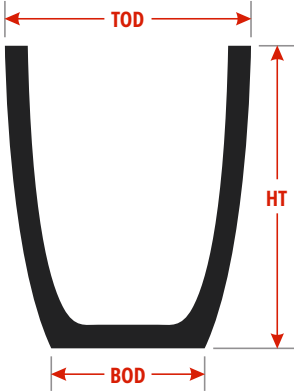
Note
Crucible working capacity: 90%
of (Water liter Capacity x Specific gravity of the metal)

Specific gravity of various metals are as below:
Brass 8.35 Gold 19.30 Zinc 7.12
Copper 8.90 Silver 10.50 Iron 7.85

AI Shape (big iso-static crucibles)

Sigma

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
AI 197	527	410	295	38
AI 200	540	430	260	38
AI 200 L	540	430	280	38
AI 225	565	430	260	40
AI 225 L	565	435	280	41
AI 250	590	430	260	42
AI 250 L	590	435	280	43
AI 255	545	440	295	48
AI 260N	610	430	260	44
AI 260 L	610	436	280	45
AI 280	635	430	260	48
AI 280 L	635	436	280	47
AI 300	585	475	320	55
AI 305	540	440	315	45
AI 307	590	440	315	51
AI 324	500	480	280	45
AI 325	600	475	320	57
AI 326	600	490	280	59
AI 350	640	475	320	62
AI 351	640	490	280	64
AI 351.2	670	490	280	69
AI 352	710	490	280	74
AI-89	370	350	240	19
AI-130	435	380	240	23
AI-152	485	380	240	27
AI-175	480	405	295	34
AI-256	575	440	295	46
AI 355	600	560	360	76
AI 355L	600	560	390	77
AI 400	660	564	360	87
AI 400L	660	564	390	85
AI 401	660	540	315	78
AI 400.1	690	564	360	93
AI 402	620	515	360	73
AI 405	680	540	315	83
AI 405 L	700	540	315	87
AI 406	680	515	360	82
AI 450	705	564	360	95
AI 500	720	564	360	97
AI 500L	720	567	390	94
AI 501	720	545	315	89



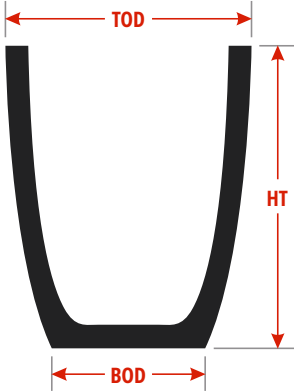
Note
Crucible working capacity: 90%
of (Water liter Capacity x Specific gravity of the metal)

Specific gravity of various metals are as below:
Brass 8.35 Gold 19.30 Zinc 7.12
Copper 8.90 Silver 10.50 Iron 7.85

AI Shape (big iso-static crucibles)

Sigma

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
AI 502	660	515	360	79
AI 510	740	545	315	94
AI 525	740	564	360	101
AI 525L	740	567	390	97
AI 550	760	564	360	105
AI 550L	760	567	390	106
AI 551	760	545	315	96
AI 552	720	520	360	88
AI 600	810	564	360	114
AI 600L	810	570	390	115
AI 601	810	548	315	105
AI 602	810	520	360	102
AI 605	840	564	360	120
AI 675	820	594	360	129
AI 650	760	590	360	117
AI 625	730	590	360	111
AI 615	720	590	360	109
AI 560	660	590	360	87
AI 2430 S	650	678	370	127
AI 2450 S	800	695	370	170
AI 2475 S	850	700	370	185
AI 2500 S	1000	718	370	232



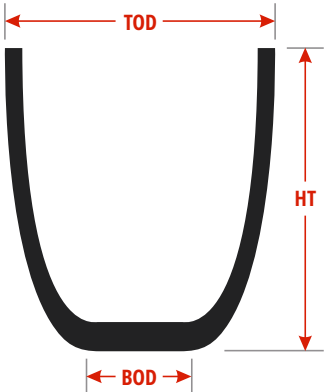
Note
Crucible working capacity: 90%
of (Water liter Capacity x Specific gravity of the metal)

Specific gravity of various metals are as below:
Brass 8.35 Gold 19.30 Zinc 7.12
Copper 8.90 Silver 10.50 Iron 7.85

BUI Shape

Sigma

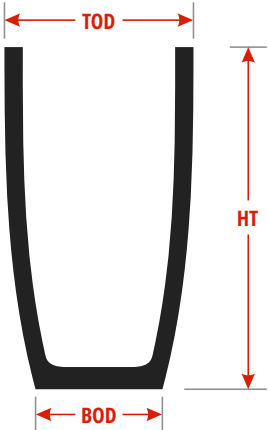
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
BUI 100	402	523	305	44
BUI 125	451	524	305	52
BUI 150	492	525	305	59
BUI 175	551	526	305	70
BUI 200	600	527	305	77
BUI 212	550	590	360	92
BUI 225	630	590	360	110
BUI 225L	655	590	360	112
BUI 250	660	590	360	116
BUI 250L	685	590	360	118
BUI 300	700	590	360	124
BUI 300L	725	590	360	126
BUI 350	800	590	360	146
BUI 350L	825	590	360	148
BUI 500	750	775	360	210
BUI 550	800	775	360	228
BUI 600	900	775	360	267
BUI 675	850	840	350	282
BUI 700	875	850	350	293
BUI 800	975	850	350	339
BUI 900	1075	850	350	384
BUI 1000	1170	850	350	424



TPI Shape

Sigma

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
TPI 4	613	360	250	32
TPI 5	707	360	250	38
TPI 6	807	360	250	44
TPI 8	820	440	290	73
TPI 9	880	440	295	79
TPI 10	940	440	295	86
TPI 20	1190	540	300	173
TPI 19	975	537	300	137
TPI 904	914	360	250	51
TPI 905	920	360	250	51
TPI 15	950	537	300	133
TPI 18	800	535	300	109
TPI-17	700	534	300	92
TPI-16	650	533	300	85



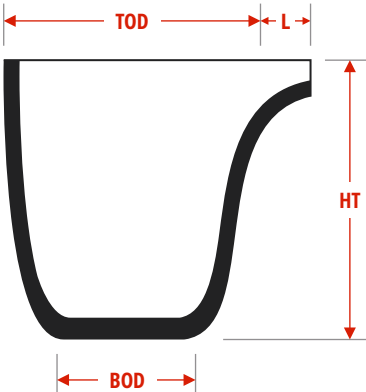
Note
Crucible working capacity: 90%
of (Water liter Capacity x Specific gravity of the metal)

Specific gravity of various metals are as below:
Brass 8.35 Gold 19.30 Zinc 7.12
Copper 8.90 Silver 10.50 Iron 7.85

TPI Shape (with spout)

Sigma

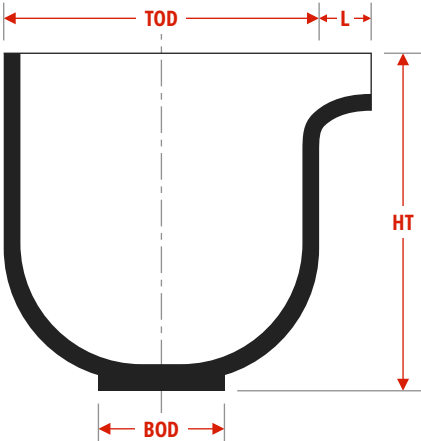
PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres
TPI 150	485	380	240	150	28
TPI 400	613	360	250	130	32
TPI 326	672	427	260	200	44
TPI 600	807	360	250	130	44
TPI 260	485	380	260	154	44
TPI 740	555	440	295	152	49
TPI 325	672	430	260	154	50
TPI 982	820	440	295	152	73
TPI 287	600	527	305	160	77
TPI 983	880	440	295	215	79
TPI 12	940	440	295	152	86
TPI 87	740	520	360	180	91
TPI 525	740	564	360	180	96
TPI 88	810	550	315	180	105
TPI 387	630	590	360	159	110
TPI 387L	655	590	360	159	110
TPI 89	810	564	360	180	114
TPI 412	800	590	360	159	146
TPI 412L	825	590	360	159	146
TBUI 1000	1170	850	350	184	384
TBUI 1140	1140	850	350	184	388



TPNI Shape (with spout)

Sigma

PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres
TPNI 500	750	785	310	146	190
TPNI 1000LS	1000	785	310	656	232
TPNI 890	890	785	310	555	232
TPNI 600	890	785	310	146	239
TBNI 600	890	785	310	184	239
TPNI 615	905	785	310	179	253
TPNI 700	1000	785	310	146	296



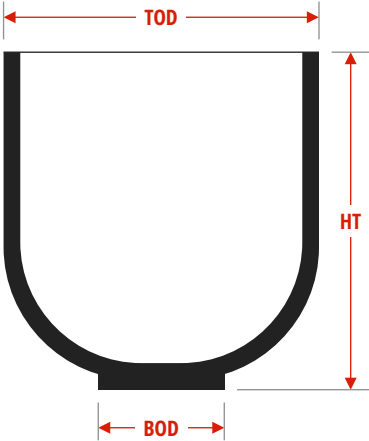
Note
Crucible working capacity: 90%
of (Water liter Capacity x Specific gravity of the metal)

Specific gravity of various metals are as below:
Brass 8.35 Gold 19.30 Zinc 7.12
Copper 8.90 Silver 10.50 Iron 7.85

BNI Shape

Sigma

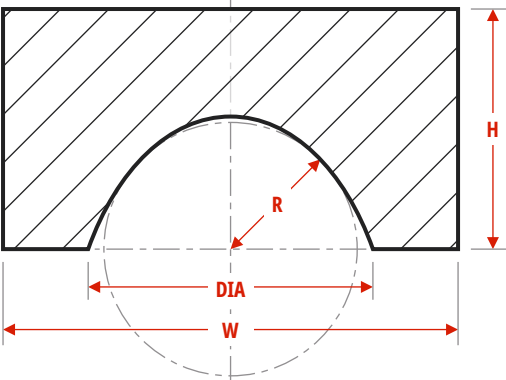
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
BNI 202	500	622	260	84
BNI 302	630	624	260	115
BNI 500L	500	782	310	110
BNI 401	700	624	260	131
BNI 401.2	700	623	260	118
BNI 402	800	626	260	155
BNI 350	900	628	260	179
BNI 355	950	626	260	173
BNI 500	750	785	310	217
BNI 501	790	775	310	232
BNI 550	825	777	310	245
BNI 600	890	785	310	270
BNI 601	930	775	310	285
BNI 615	905	785	310	276
BNI 700	1000	777	310	312
BNI 750	1060	775	310	333



Stand (cylinder type)

Sigma

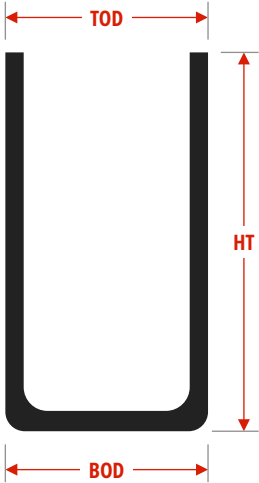
PATERN	HT mm	TOD mm	BOD mm
STAND AI/1	125	250	250
STAND AI/2	150	250	250
STAND AI/3	200	250	250
STAND AI/4	250	250	250
STAND AI/5	50	250	250
STAND AI/6	75	250	250
STAND BI/1	125	300	300
STAND BI/2	150	300	300
STAND BI/3	200	300	300
STAND BI/4	250	300	300
STAND BI/5	50	300	300
STAND BI/6	75	300	300
STAND CI/1	125	360	360
STAND CI/2	150	360	360
STAND CI/3	200	360	360
STAND CI/4	250	360	360
STAND CI/5	50	360	360
STAND CI/6	75	360	360



Cylindrical Crucible For Induction Furnace Application

Sigma

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
CYI 110X265	265	110	110	2
CYI 222X420 A	420	222	222	7
CYI 222X400	400	222	222	8
CYI 390X632	632	390	390	49
CYI 400X600	600	400	400	51
CYI 400X640	640	400	400	56
CYI 400X700	700	400	400	61
CYI 504X710	710	504	504	103
CYI 504X750	750	504	504	109
CYI 550X850	850	550	550	122
CYI 504X850	850	504	504	124
CYI 550X820	820	550	550	143
CYI 400X500	500	400	400	42
CYI 380X640	640	380	380	49
CYI 380X600	600	380	380	48



Note
Crucible working capacity: 90%
of (Water liter Capacity x Specific gravity of the metal)

Specific gravity of various metals are as below:
Brass 8.35 Gold 19.30 Zinc 7.12
Copper 8.90 Silver 10.50 Iron 7.85



SYNCARB Z2e2

Syncarb Z2e2 is a premium quality hybrid ceramic bonded clay graphite crucible with a high silicon carbide and graphite content that is manufactured through an advanced Iso-Static Pressing technology.

Vesuvius uses a proprietary processing technology that results in a product with a very homogenous and high density structure. This allows the crucible to obtain superior thermal conductivity over its entire operating temperature range, high mechanical strength and erosion resistance along with good thermal shock resistance. These properties translate into a durable and robust crucible with excellent performance characteristics in lower temperature environments. In addition, Syncarb Z2e2 is also coated internally and externally by proprietary glazes to prevent low temperature oxidation and degradation that occur in aluminium and other low temperature alloys over extended period of life. These crucibles have specifically been designed by intensive research, keeping in mind energy cost saving for the customers. The special mix of materials used to manufacture these crucibles can sustain without getting oxidized for a long period of time leading to better & highly consistent performance of the crucible.

Syncarb Z2e2 is designed to perform exceptionally well to melt and hold aluminium and other low temperature alloys in gas fired and electric resistance furnaces.

Typical Metal Casting Temperature

- 400°C - 1000°C

Performance Characteristics

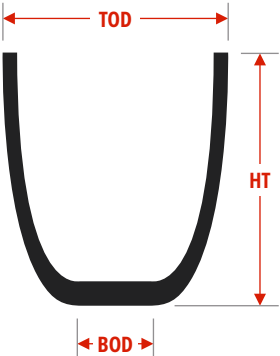
- High thermal conductivity & very high energy efficiency
- Superior oxidation resistance
- High mechanical strength & good erosion resistance
- High consistency in performance & repeatability
- Longer life



BUI Shape

Syncarb Z2e2

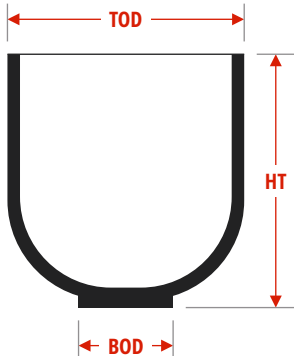
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
BUI 100	402	523	402	47
BUI 125	451	524	451	54
BUI 150	492	525	492	62
BUI 175	551	526	551	71
BUI 200	600	527	600	79
BUI 500	750	775	360	209
BUI 550	800	775	360	228
BUI 600	900	775	360	266



BNI Shape

Syncarb Z2e2

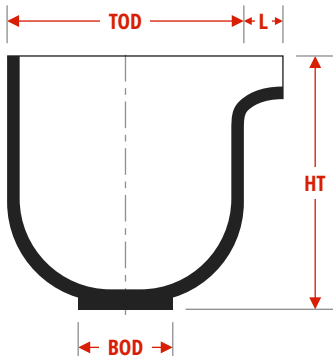
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
BNI 202	500	617	260	84
BNI 302	630	617	260	115
BNI 401	700	617	260	131
BNI 402	800	617	260	155
BNI 350	900	617	260	179
BNI 355	950	617	260	190
BNI 500	750	785	310	213
BNI 550	825	785	310	245
BNI 600	890	785	310	270
BNI 615	905	785	310	275
BNI 700	1000	785	310	312
BNI-401.2	700	616	260	118



TPNI Shape (with spout)

Syncarb Z2e2

PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres
TPNI 500	750	785	310	146	197
TPNI 600	890	785	310	146	241
TPNI 615	905	785	310	146	255
TPNI 700	1000	785	310	146	296



VALuStar™

VALuStar™ is the latest and most advanced family of crucibles developed by Molten Metal Systems. It is a high density, clay bonded, iso-statically pressed crucible, which has a high graphite and SiC content to give it a superior mechanical strength.

VALuStar™ has excellent internal and external glazes, which prevent low temperature oxidation, and degradation of the crucible, that are common in aluminium and other low temperature alloys, when used over extended periods.

As a result, VALuStar™ has a significantly longer life than all other iso-statically pressed crucibles for lower temperature applications and retains its good thermal conductivity over the entire life. VALuStar™, when combined with Star coating, delivers significantly less dross adhesion and reduced impurities in holding applications.

VALuStar™ crucibles are designed to perform exceptionally well to hold aluminium and aluminium alloys in electric resistance furnaces.

Typical Metal Casting Temperature

- 700°C - 1000°C

Performance Characteristics

- Significantly longer life due to higher oxidation resistance.
- Excellent thermal conductivity and good thermal shock resistance.
- High mechanical strength.
- Good erosion resistance.



Identification

VALuStar™ crucibles are finished with a blue Low Temperature Protection (LTP) coating.

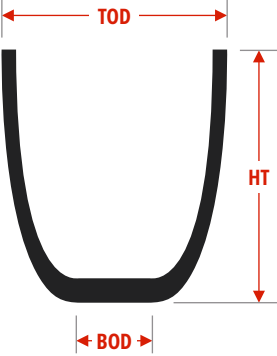
Pattern Range

VALuStar™ crucibles are available in wide range of shapes and sizes, as per our current range of crucible models i.e. A, BU, BN, TP & TBN. The crucible can also be supplied with specialised & patented coatings developed by FOSECO to enhance specific properties required in the application.

BUI Shape

Valustar™

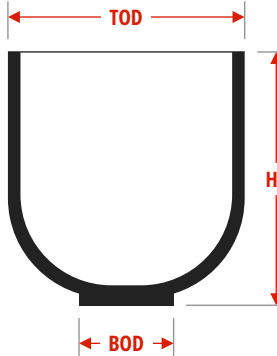
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
BUI 100	402	523	402	47
BUI 125	451	524	451	54
BUI 150	492	525	492	62
BUI 175	551	526	551	71
BUI 200	600	527	600	79
BUI 500	750	775	360	209
BUI 550	800	775	360	228
BUI 600	900	775	360	266



BNI Shape

Valustar™

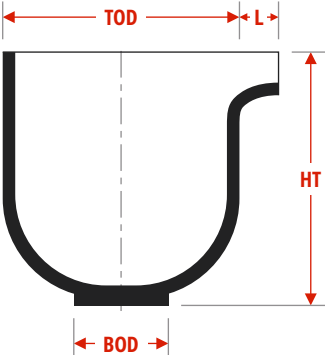
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
BNI 202	500	617	260	84
BNI 302	630	617	260	115
BNI 401	700	617	260	131
BNI 402	800	617	260	155
BNI 350	900	617	260	179
BNI 355	950	617	260	190
BNI 500	750	785	310	213
BNI 550	825	785	310	245
BNI 600	890	785	310	270
BNI 615	905	785	310	275
BNI 700	1000	785	310	312
BNI-401.2	700	616	260	118



TPNI Shape (with spout)

Valustar™

PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres
TPNI 500	750	785	310	146	197
TPNI 600	890	785	310	146	241
TPNI 615	905	785	310	146	255
TPNI 700	1000	785	310	146	296



ULTRAMELT

ULTRAMELT is a premium quality carbon bonded silicon carbide crucible manufactured by high pressure iso-static pressing. ULTRAMELT incorporates Molten Metal System’s advanced bonding technology and is a superior grade product designed to provide optimum performance under the most arduous service conditions.

ULTRAMELT offers superior performance for aggressive erosive conditions with heavy flux usage in both copper based alloys and precious metal reclamation. The product is designed for use in gas, oil, and low to medium frequency induction furnaces.

Typical Metal Casting Temperature

- 1000°C - 1400°C

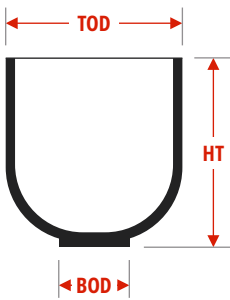
Performance Characteristics

- Superior erosion resistance
- Maximum resistance to corrosive chemicals and slags
- Excellent thermal shock resistance
- High mechanical strength
- High consistent density
- Faster melting speed



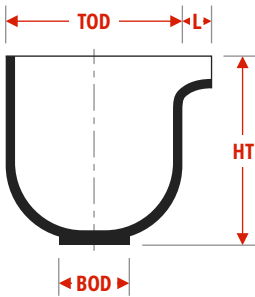
BNI Shape Ultramelt

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
BNIU 360	900	615	260	162
BNIU 350L	825	615	260	145
BNIU 350	800	615	260	140
BNIU 300	700	615	260	118
BNIU 250	630	615	260	103
BNIU 210	500	615	260	75
BNIU-202	500	617	260	70
BNIU-302	630	617	260	97
BNIU-401	700	617	260	113
BNIU-402	800	617	260	135



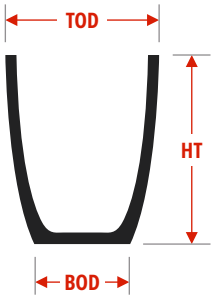
TPNI Shape (with spout) Ultramelt

PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres
TPNIU 360	900	615	260	146	151
TPIU 720	880	719	380	324	189



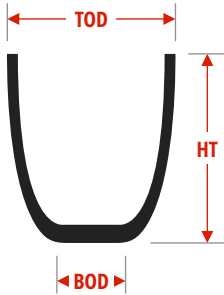
AI Shape Ultramelt

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
AIU 351TW	610	480	315	55



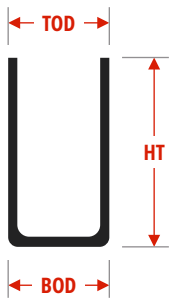
BUI Shape Ultramelt

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
BUIU 720	1000	720	380	241



Cylindrical Crucible Ultramelt

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
CYIU 510X435	435	510	510	54
CYIU 650X960	960	650	545	192.8
CYIU 500X840	840	500	500	118



SUPREX

Suprex crucibles are carbon-bonded silicon carbide crucibles, which are manufactured using precise roller forming process. Suprex crucibles are characterized by excellent thermal conductivity and high chemical erosion resistance.

Suprex crucibles are manufactured from selectively blended high quality export grade raw materials, under ISO 9001:2015 quality management system.



Suprex Brands	Application	Suitable Furnace	Operating Temperature	Performance Characteristics	Identification
Suprex-B	These are Foseco's premium quality crucibles developed for various applications in fuel (oil, gas, coal) fired but recommended for better performance in copper and their alloy application	Coal, Oil & Gas fired	800-1400°C	- Excellent thermal conductivity - Excellent erosion resistance - Good resistance to corrosive attack by chemical treating agents - Excellent thermal shock resistance	These are colored red for Cu alloy and other high temperature applications in coal/oil fired furnaces
Suprex-R	These are Morgan's premium quality crucibles developed for applications in fuel (oil, gas, coal) fired melting of aluminum, & their alloys, zinc oxide	Coal, Oil & Gas fired	700-1200°C	- High thermal conductivity - Good erosion resistance - Good resistance to corrosive attack by chemical treating agents - Excellent thermal shock resistance - High oxidation resistance	These are colored Brown for Aluminum and ZnO
Suprex-E	These are Morgan's premium quality crucibles developed for use in electric resistance Holding of aluminum and its alloy.	Electric Resistance	700-1000°C	- Good thermal conductivity - Good erosion resistance - Excellent thermal shock resistance - Better oxidation resistance	Grey colour with top rim red colour. Product model numbers are suffixed with letters "E". E.g. BC401 E
Suprex-E Plus	With enhanced product life & energy savings in the non-ferrous low temperature melting & holding applications of aluminum & their alloys in electric resistance and fuel fired furnaces	Electric Resistance & Gas fired	700-1000°C	- Extremely high oxidation resistance resulting in superior energy efficiency - Consistent performance & repeatability - High mechanical strength & erosion resistance - Good thermal conductivity - Excellent thermal shock resistance	Grey colour with top rim Green colour. Product model numbers are suffixed with letters "E-Plus". E.g. BC401 E-PLUS

Preheating Recommendations

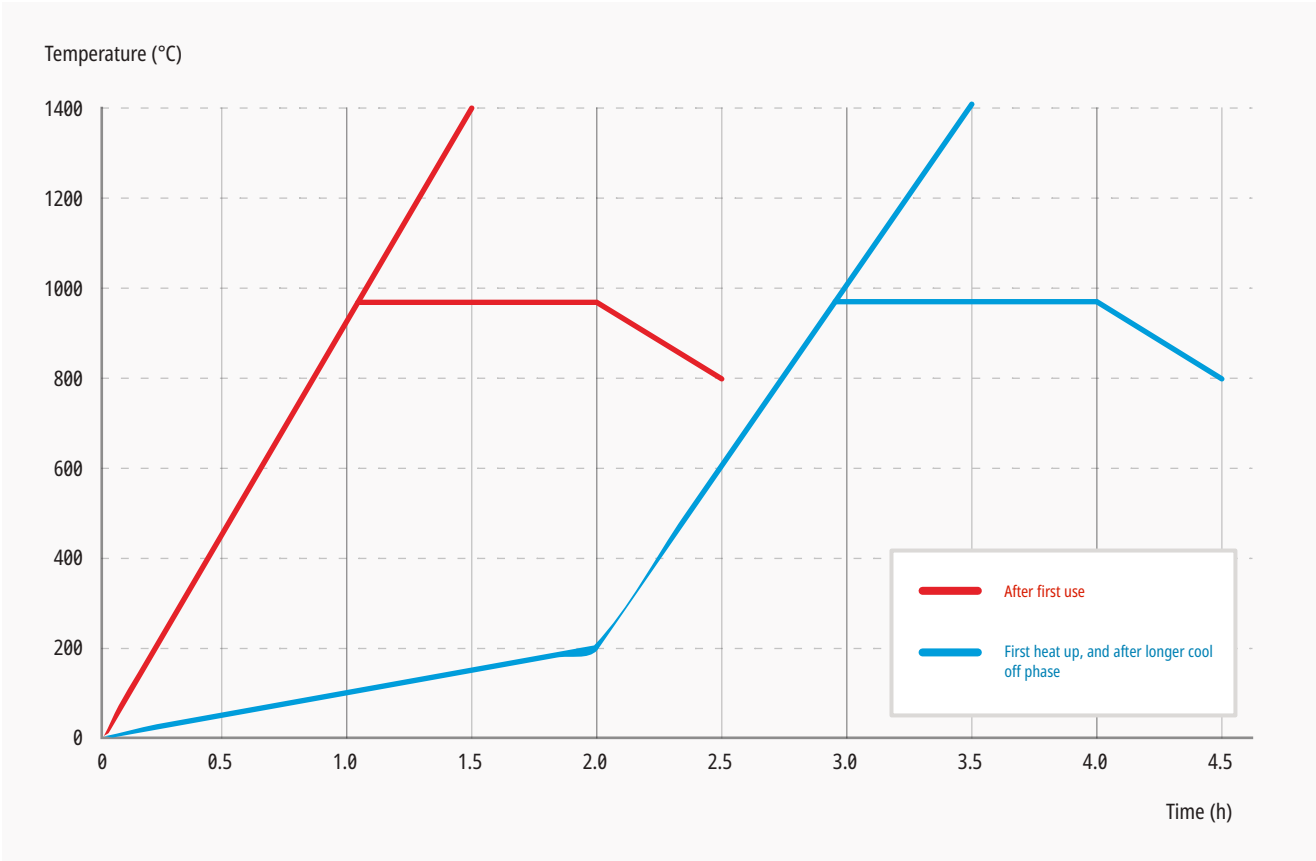
Silicone Graphite Crucibles

Preheating Cycle

- The crucible after installation in the furnace should be heated up slowly to a temperature of 200°C (392°F) over a period of 2 hours, to eliminate any moisture that may be present.
- Next, these crucibles should be heated up to a temperature of 950°C (1742°F) on full power, if possible.
- Silicon Carbide crucibles used in a melting operation can be continuously heated up on full power until working temperature is reached. The crucible is then ready to be charged with care.
- When using Silicon Carbide crucibles for holding, the temperature of 950°C (1742°F) should be reached and held for approximately one hour. This ensures even melting of the glaze with the additional antioxidation coating, which is essential to achieve the maximum possible crucible life.

Note

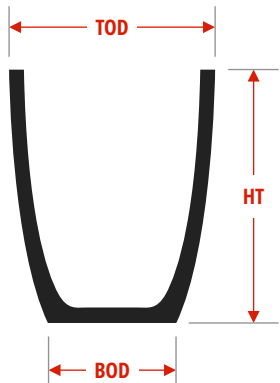
- For holding crucibles this procedure should be carried out periodically, but always before starting up again after a prolonged cool down period. This helps to compensate for the negative effects of low holding temperatures.
- Each time the crucible is heated up after a cooling down phase, it should be heated following the procedure laid down for the first installation. However, the drying time of 2 hours can be omitted. Should the Silicon Carbide or Clay Graphite crucible not be used for a long period, it will be necessary to eliminate moisture, which may have been absorbed from slag. In this case, the crucible should be heated up to a temperature of 200°C (392°F). After reaching this temperature, further heating should be continued as per the first installation.
- The above recommendations refer to the use of new crucibles in existing furnaces. When installing a new Silicon Carbide crucible into a new furnace, the heating and drying instructions of the furnace manufacturer should be followed. If the furnace manufacturer prescribes a longer heating cycle (or curve), this procedure should be carried out without the crucible. It is essential that the crucible is installed in an absolutely dry furnace.



A Shape. For lift out & bale out furnaces

Suprex

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres	APPROX. BRASS CAPACITY kg
AC 25	280	210	155	5	38
AC 27	265	232	160	5	41
AC 29	290	232	160	6	47
AC 31	324	248	180	9	64
AC 36	338	276	190	10	71
AC 41	362	276	190	11	83
AC 50	324	248	180	8	61
AC 61	405	305	210	16	116
AC 81	410	328	230	17	131
AC 101	440	335	240	20	150
AC 121	452	374	250	22	167
AC 160	452	385	230	27	205
AC 175	472	385	230	29	214
AC 180	498	385	230	30	228
AC 200	495	400	285	33	249
AC 190	548	385	230	34	255
AC 205	505	430	250	38	284
AC 230	541	430	250	40	301
AC 250	555	430	260	43	323
AC 300	555	440	310	44	330
AC 255	585	450	250	48	361
AC 265	615	437	250	48	361
AC 280	635	437	250	50	376
AC 330	585	474	260	54	406
AC 350	630	474	260	60	447
AC 355HB	635	474	315	61	457
AC 355	635	474	315	62	466
AC 375HB	685	474	315	66	497
AC 375	685	474	315	72	539
AC 400HB	650	530	320	75	565
AC 400	650	530	320	79	591
AC 410	685	527	315	82	616
AC 410HB	685	527	315	82	618
AC 405HB	705	530	320	84	631
AC 405	705	530	315	86	647
AC 500	685	565	355	93	699
AC 510	720	567	355	97	729
AC 555	765	570	355	103	774
AC 610	800	572	355	115	864
AC 650	830	585	355	125	1089
AC 700	880	585	355	131	984
AC 1000	822	616	420	142	1060



Note

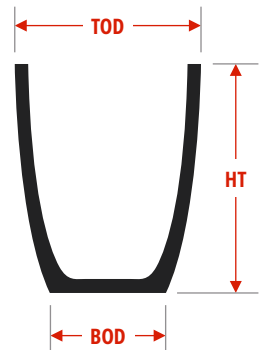
- Crucible working capacity: 90% of (Water liter Capacity x Specific gravity of the metal)
- Specific gravity of various metals are as below:

Aluminium	2.72	Copper	8.90
Brass	8.35	Gold	19.30
Silver	10.50	Zinc	7.12
- Pyrometer pocket and hole in wall configurations are available to facilitate measurement of metal temperature
- Our crucibles are recommended for non-ferrous alloys except those containing more than 30% of Nickel, Chromium or Iron.
- Standard Spout length is 146 mm. Spout with length up to 280 mm is available
- Any basic model of AC series can be converted to spouted model

TP Shape. For over top crucibles for tilting furnaces

Suprex

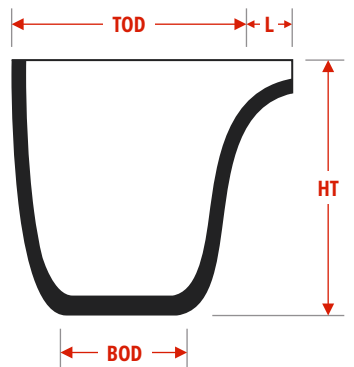
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres	APPROX. BRASS CAPACITY kg	RECESS
TPC 5	675	437	250	55	413	Y
TPC 8	800	450	295	68	513	Y
TPC 10	940	450	295	83	621	Y



TP Shape (with spout). For tilting furnaces

Suprex

PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres	APPROX. BRASS CAPACITY kg	RECESS
TPC 175	472	385	230	25	185	146	Y
TPC 400	600	385	280	30	225	146	Y
TPC 740	555	440	310	40	301	146	Y
TPC 843	675	437	250	48	357	146	Y
TPC 355	635	474	315	54	406	146	Y
TPC 12	940	450	295	74	554	146	Y
TPC 982	800	450	295	64	481	146	Y
TPC 983	800	450	295	64	481	200	Y
TPC 984	855	450	295	72	541	146	
TPC 89	800	572	390	103	774	146	
TPC 650	830	585	390	120	898	146	
TPC340HW	584	464	295	35	265	289	
TPC 740	555	440	310	38	283	142	



Basin (with spout). For tilting furnaces

Suprex

PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres	APPROX. ALUMINUM CAPACITY kg	RECESS
TPC 287	600	527	315	68	166	146	Y
TPC 387	630	616	355	99	242	146	
TPC 412	800	616	355	135	330	146	
TPC 412A	800	616	355	135	330	146	
TPC 587	890	775	460	236	578	184	
TPC 588	890	775	460	239	585	146	
TPC588DB	890	775	460	180	441	506	
TPC 849	925	775	338	255	624	146	
TPC 947	1000	775	338	270	661	184	
TPC 264	1000	775	460	275	673	184	
TPC 852	1140	850	450	419	1026	184	
TPC 2600	1244	850	350	428	1048	185	
TPC 853	1240	850	450	465	1138	184	
TPC 1200	1150	960	460	496	1214	184	

Note

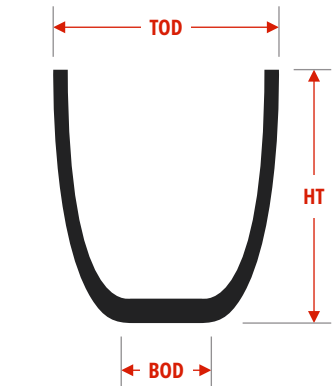
- Crucible working capacity: 90% of (Water liter Capacity x Specific gravity of the metal)
- Specific gravity of various metals are as below:

Aluminium	2.72	Copper	8.90
Brass	8.35	Gold	19.30
Silver	10.50	Zinc	7.12
- Pyrometer pocket and hole in wall configurations are available to facilitate measurement of metal temperature
- Our crucibles are recommended for non-ferrous alloys except those containing more than 30% of Nickel, Chromium or Iron.

BC Shape. For bale out furnaces

Suprex

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres	APPROX. ALUMINUM CAPACITY kg
BC 164	300	517	315	28	69
BC 166	400	527	315	43	105
BC 167TW	450	527	315	50	122
BC 167	450	527	315	52	127
BC 1678TW	475	527	315	52	127
BC 168TW	492	527	315	55	135
BC 168	492	527	315	58	142
BC 995TW	400	814	350	76	186
BC 171	600	527	315	69	170
BC 172	650	527	315	73	178
BC 202	500	616	355	74	180
BC 996TW	450	832	350	106	259
BC 302HB	630	616	355	108	264
BC 302	630	616	355	110	269
BC 401HB	700	616	355	122	299
BC 401	700	616	355	124	304
BC 402HB	800	616	355	144	353
BC 700	630	726	305	144	353
BC 402	800	616	355	145	355
BC 712	600	720	380	147	360
BC 502	900	616	355	168	411
BC 713	670	720	380	169	414
BC 714	695	720	380	176	431
BC 715	730	720	380	187	458
BC 716	765	720	380	198	485
BC 847	750	775	338	200	490
BC 247	750	775	460	204	499
BC 724	800	720	380	208	509
BC 717	810	720	380	211	517
BC 848	780	775	338	211	517
BC 718	885	720	380	234	573
BC 719	950	720	380	254	622
BC 263	890	775	460	255	624
BC 849	925	775	338	260	636
BC 720	975	720	380	261	639
BC 850	750	850	450	268	656
BC 947	1000	775	338	286	700
BC 264	1000	775	460	294	720
BC 1030	750	960	460	299	732
BC 857	1000	850	450	380	930
BC 265	1240	775	460	386	945
BC 852	1140	850	450	439	1075
BC 1035	1000	960	460	440	1077
BC 2600	1244	850	350	451	1104
BC 1045	1050	960	460	469	1148
BC 853	1240	850	450	484	1185
BC 1200	1150	960	460	520	1273



Note

- Crucible working capacity: 90% of (Water liter Capacity x Specific gravity of the metal)
- Specific gravity of various metals are as below:

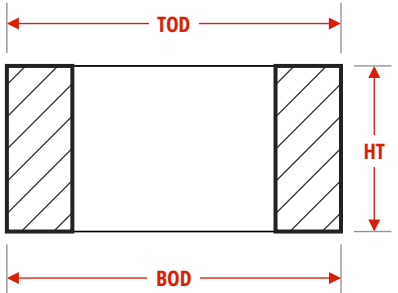
Aluminium	2.72	Copper	8.90
Brass	8.35	Gold	19.30
Silver	10.50	Zinc	7.12
- Pyrometer pocket and hole in wall configurations are available to facilitate measurement of metal temperature
- Our crucibles are recommended for non-ferrous alloys except those containing more than 30% of Nickel, Chromium or Iron.
- Standard Spout length is 146 mm. Spout with length up to 280 mm is available
- Any basic model of AC series can be converted to spouted model

Muffle Rings

Suprex

Muffle rings increase thermal efficiency by providing additional space for the heating charge.

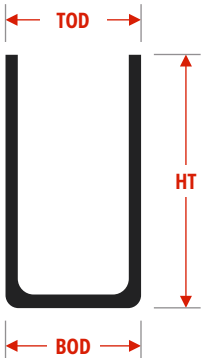
PATERN	HT mm	TOD mm	BOD mm	SUITABLE FOR MODELS
XMC 71	280	385	370	TPC-400, TPC10, TPC12, TPC8, TPC843
XMC 122/1	255	450	450	TPC-387, TPC412
XMC 143/1	205	616	616	TPC287
XMC 159/1	305	527	516	TPC89
XMC 159/3	305	570	549	TPC852, TPC1600, TPC1800
XMC 1600	240	850	850	TPC588, TPC840, TPC947, TPC264
XMC 587	100	775	775	TPC588, TPC651



Cylindrical Crucible. For Induction Furnaces

Suprex

PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres	APPROX. BRASS CAPACITY kg
EC 323	318	165	165	4	32	146
EC 1606	315	222	222	7	49	146
EC 1601	470	222	222	10	77	146
EC 447	400	254	254	13	98	146
EC 444	475	254	254	15	113	146
EC 552	450	295	260	20	147	146
EC 329	530	330	330	25	188	146
EC 390	508	362	362	29	218	200
EC 330	635	330	330	30	225	146
EC 187	535	390	390	35	265	146
EC 187TW	535	390	390	38	282	146
EC 181	632	390	390	43	325	289
EC 701TW	560	445	445	56	424	142
EC 71	700	450	450	64	481	
EC 722	560	500	500	64	481	
EC 70	670	450	450	74	556	
EC 75	650	530	530	79	590	
EC 72	775	500	500	92	691	
EC 565	720	570	570	119	892	
EC 575	865	570	570	144	1082	
EC 571	900	570	570	152	1142	
EC 570	1000	570	570	168	1263	
EC 650	1000	645	645	188	1413	
EC 652	1190	650	650	235	1766	
EC 800	1100	800	800	375	2820	
EC 905	1100	905	905	517	3885	



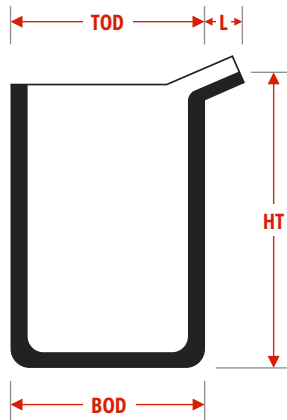
Note

- 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	Copper	8.90
Brass	8.35	Gold	19.30
Silver	10.50	Zinc	7.12
- Pyrometer pocket and hole in wall configurations are available to facilitate measurement of metal temperature
- Our crucibles are recommended for non-ferrous alloys except those containing more than 30% of Nickel, Chromium or Iron.
- Standard Spout length is 146 mm. Spout with length up to 280 mm is available
- Any basic model of AC series can be converted to spouted model

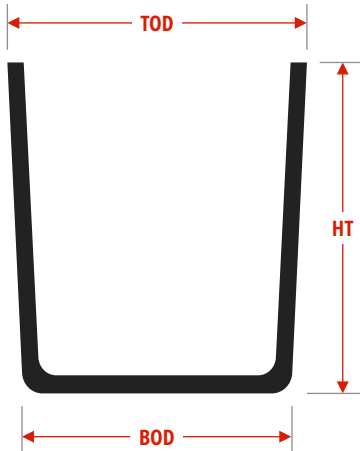
Cylindrical Crucible (with spout) Suprex

PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres	APPROX. BRASS CAPACITY kg
TC 1601R	470	222	222	140	8	62
TC 1603R	470	222	222	276	8	62
TC 447R	400	254	254	164	12	86
TC 330R	635	330	330	200	30	225
TC 182R	632	390	390	190	41	306
TC 1821R	632	390	390	320	41	306
TC 70R	762	445	450	265	71	535
TC 72R	775	500	500	148	89	669
TC 577R	800	570	570	250	127	951
TC 800R	1100	800	800	265	372	2796



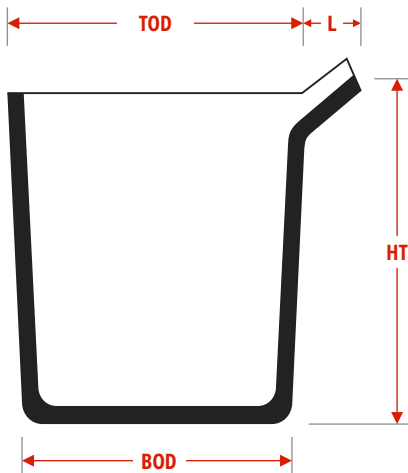
L Shape Suprex

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres	APPROX. BRASS CAPACITY kg
LC 441	329	372	221	15	111
LC 456	442	476	308	34	259
LC 483	541	498	386	54	404
LC 482	385	392	214	81	609
LC 481	578	597	474	89	668
LC 751	692	626	556	135	1016



L Shape (with spout) Suprex

PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres	APPROX. ALUMINUM CAPACITY kg
LCP 761	467	602	556	173	75	562
LCP 757	692	626	556	175	97	730
LCP 760	582	615	556	174	97	730
LCPG 757	692	626	556	148	102	768



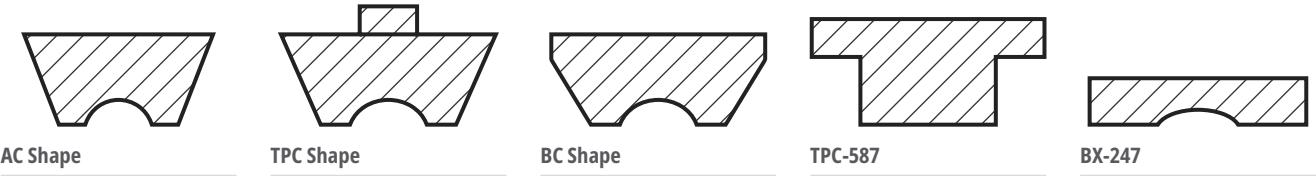
Note

- 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	Copper	8.90
Brass	8.35	Gold	19.30
Silver	10.50	Zinc	7.12
- Pyrometer pocket and hole in wall configurations are available to facilitate measurement of metal temperature
- Our crucibles are recommended for non-ferrous alloys except those containing more than 30% of Nickel, Chromium or Iron.

Accessories for Silicon Carbide Crucibles Stands Suprex

PATERN	HT mm	TOD mm	BOD mm	SUITABLE FOR PATTERNS			SPIGOT
				AC	BC	TPC	
XRC 122/1	125	285	230	160, 175, 180		175, 400	N
XRC 122/1(S)	125	285	230	200, 205, 225			Y
XRC 122/2	230	175	285	230, 250, 255		843, 5	N
XRC 122/3	230	100	285	330, 350, 365			N
XRC 132/1	125	310	250	300, 355, 375, 400, 405, 410	166, 167, 168, 171	287, 355	N
XRC 132/1(S)	125	310	250			740, 355, 843, 10, 12, 982, 8	Y
XRC 132/2(S)	250	310	250				Y
XRC 132/3(S)	300	310	250			740,355,843, 1, 012, 982, 983	Y
XRC 132/4	250	310	250				N
XRC 132/4(S)	175	310	250			740, 843, 10, 12, 982, 8	Y
XRC 132/5(S)	75	310	275			740, 843, 10, 12, 982, 8	Y
XRC 202/1	125	360	250	500, 510, 610, 555	202, 302, 401, 402	387, 412	N
XRC 202/1(S)	125	360	250			412, 89	Y
XRC 202/2	175	360	250	500, 510, 610, 555	202, 302, 401, 402	387, 412, 89	N
XRC 202/2(S)	175	360	250			387, 412, 89	Y
XRC 202/3	225	360	250	500, 510, 610, 555	202, 302, 401, 402	387, 412,	N
XRC 202/3(S)	225	360	250			387, 412, 89	Y
XRC 202/4	150	360	250	500, 510, 610, 555	202, 302, 401, 402	387, 412	N
XRC 202/8	250	360	250				N
XRC 247	115	425	425		247, 263, 700		N
XRC 247/50	50	425	425		247, 263, 700		N
XRC 587	215	425	300			588, 651	N
XRC 360/50	50	360	360				N
XRC 360/75	75	360	360				N
XRC 310/50	50	310	310				N
XRC 804	120	350	350		847		N
XRC 2471	100	425	425		247, 263, 264		N
XRC 2474	150	425	425		247, 263, 264		N
XRC 2472	200	425	425		247, 263, 264		N
XRC 1105	125	250	250				N
XRC 0905	150	250	250				N



Note

- Stands of different heights can also be made available on order
- Stands with spigot also available for TPC model shaving recesses



SALAMANDER EXCEL & HIMELT

EXCEL and HIMELT are high-quality carbon-bonded silicon carbide crucibles manufactured using the latest roller-forming techniques and are designed to cater to a range of nonferrous melting applications.

EXCEL: Intended for aluminium melting in oil-fired furnaces, melting copper-based alloys in gas and oil-fired furnaces, melting precious metals and non-ferrous alloys in low to medium frequency induction furnaces.

EXCEL-E: Designed for low temperature metals (Aluminum and Zinc alloys) for use in electrical resistance and gas fired furnaces for melting and holding application.

HIMELT: Provides enhanced performance in those applications where more arduous service conditions exist.

Typical Metal Casting Temperature

- EXCEL E: 620—900°C
- EXCEL: 850—1250°C
- HIMELT: 1000—1400°C

Performance Characteristics

- Excellentthermalshock resistance.
- High resistance to oxidation.
- Good erosion resistance.
- Good resistance to corrosive attack by chemicaltreatment.
- Fast melting speed through high consistentthermal conductivity.

Identification

EXCEL and EXCEL-E crucibles are coloured dark red and green and suffixed with letter E e.g BX401E. HIMELT crucibles are bright red and utilize the code HM e.g. AHM800.

Pattern Range

EXCEL and HIMELT crucibles are available in a comprehensive range of shapes and sizes to suit most end user requirements.

Custom sizes can be supplied by specialrequest. Heavy wall (HW) versions can be supplied forincreased life in arduous applications and a selection offixed pouring with optimized profilesis offered where required.

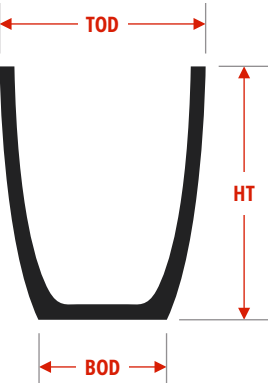
EXCEL and HIMELT crucibles can be supplied with FOSECO’s unique PD coating system, which can assist with metal cleanliness and prevention of dross adhesion.



A Shape

Salamander Excel & Himelt

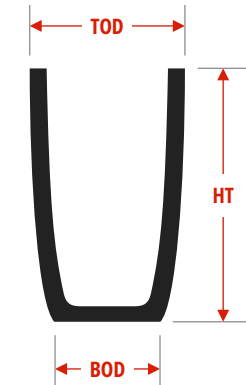
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
AX8	184	156	105	1,5
AX12	210	171	120	2,4
AX16	232	184	130	3
AX20	260	197	145	4,0
AX25	280	210	155	4,7
AX30	290	232	160	5,8
AX40	318	232	160	6,5
AX50	324	248	180	8,6
AX60	362	276	190	10
AX60/BK	362	276	190	10
AX70	375	292	200	12,1
AX80	397	300	210	13,9
AX90	397	310	220	14,9
AX100	400	324	230	15,6
AX120	435	333	240	18
AX120HW	435	333	236	17,1
AX200	491	400	285	31
AX200HW	491	400	285	31
AX150	500	364	250	25
AX220	530	401	285	34
AX300	543	443	310	42
AX300L	543	443	310	42
AX300HW	543	443	310	39,9
AX250	546	421	255	36
AX250HW	546	421	255	36
AX225	555	401	285	35,9
AX210	560	425	230	39,6
AX325	584	445	310	46
AX350	606	464	295	49,7
AX310	645	466	241	54
AX400L	650	514	300	63
AX400HW	650	514	300	63
35,9	650	516	300	63
AX450	675	518	300	65,6
AX410	700	510	285	73
AX500	700	520	300	70,3
AX500HWHB	700	520	300	70,3
AX500HW	700	520	300	75
AX600	760	543	315	81,3
AX600HW	760	543	315	81,3
AX800	800	550	350	100,3
AX800HW	800	550	350	100,3
AX1000	822	616	420	138,6



C Shape

Salamander Excel & Himelt

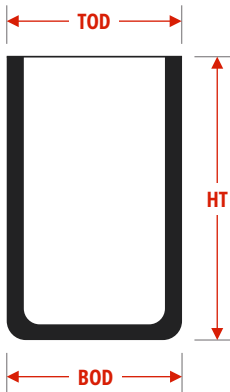
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
CX40	260	184	125	3
CX60	320	207	140	4,5
CX80	356	222	140	5,8
CX90	364	229	170	6,3
CX100	373	244	175	7,5
CX120	400	257	185	8,7
CX150	435	275	200	11,2
CX200	457	292	220	14,2
CX250	510	310	235	18,4
CX300	553	320	235	21,5
CX350	581	365	210	27
CX400	600	378	225	30,2
CX600-BK	706	418	245	41,8
CX600	706	418	245	41,8



Cylindrical Crucible. For Induction Furnaces

Salamander Excel & Himelt

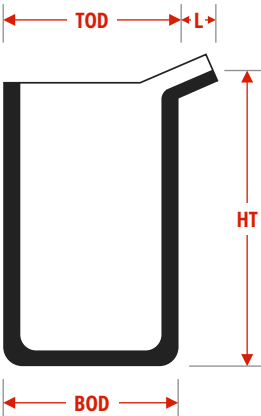
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
EX1606	315	222	152	6,5
EX323	318	165	115	4,2
EX325	323	180	130	4,6
EX447	400	254	244	12,3
EX447HW	400	254	244	11
EX385	440	362	262	25
EX552	450	295	260	18,3
EX552A	450	295	260	18,3
EX185	460	390	290	30
EX1601	470	222	152	10,2
EX1601PD	470	222	152	10,2
EX444	475	254	244	14,8
EX444HW	475	254	244	12,7
EX390	508	362	262	29,3
EX329	530	330	280	24,8
EX187	535	390	290	35,3
EX722	560	500	424	63
EX581	578	570	494	88,5
EX703	585	445	369	53,7
EX860	600	800	650	186,2
EX181	632	390	290	42,3
EX330	635	330	280	30,2
EX644	650	635	430	108
EX71	660	445	369	61,2
EX572	710	570	494	110,9
EX70	762	445	369	71,3
EX70E	762	445	369	71,3
EX72	775	500	424	89
EX571H865	865	570	570	142
EX576	890	570	494	141,5
EX571	900	570	494	143,2
EX650	1000	645	430	181,6
EX651	1150	649	430	214,5



Cylindrical Crucible (with spout)

Salamander Excel & Himelt

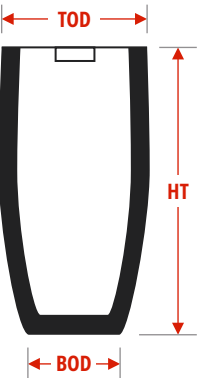
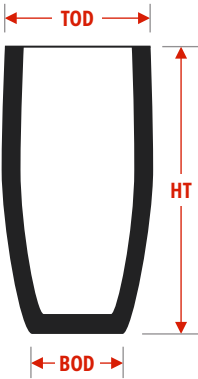
PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres
TEX444R	400	254	242	164	11,5
TEX447HW	400	254	242	164	9,5
TEX447R	400	254	242	164	11,5
TEX1601R	470	222	152	140	8,3
TEX1603R	470	222	152	276	10,3
TEX331R	565	330	330	200	28,3
TEX1812 R	632	390	290	320	40,7
TEX181R	632	390	290	136	40,7
TEX182R	632	390	290	190	40,7
TEX330R	635	330	280	200	30
TEX71HW	660	445	343	295	53,4
TEX71	660	445	369	295	53,4
TEX71RE	660	445	369	136	53,4
TEX870R	762	445	343	205	60,2
TEX72R	775	500	424	148	89
TEX577R-SPD	800	570	494	250	126,5
TEX571H865HW	865	570	570	295	140,32
TEX-652R PLUS A	1190	650	620	289	207



TPX Shape. For tilting furnaces

Salamander Excel & Himelt

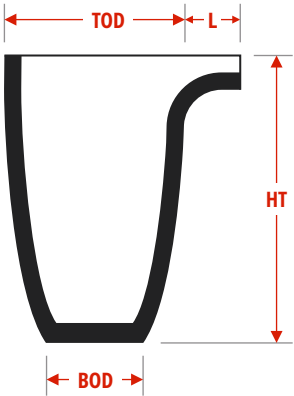
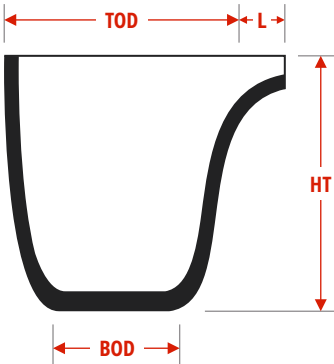
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
TPX1146	610	292	238	20,6
TPX115	632	349	240	26,6
TPX710	720	432	295	51,3
TPX901	762	292	238	26,4
TPX158E	810	418	255	52,7
TPX904	914	349	240	42,6
TPX10	940	440	295	68,0
TPX15	975	550	350	113,8
TPX16	975	550	350	121,5
TPX14	1025	422	255	72,2
TPX833	1125	541	320	139,6
TPX8332	1125	541	320	126,0
TPX980	1220	680	390	216,0



TPX Shape (with spout). For tilting furnaces

Salamander Excel & Himelt

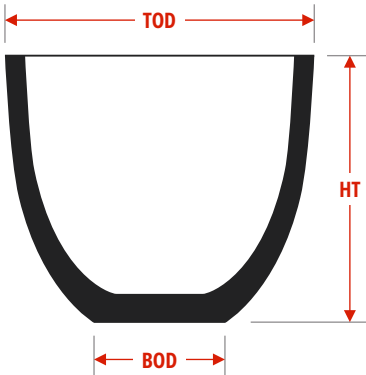
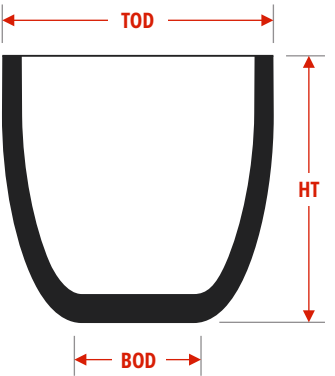
PATERN	HT mm	TOD mm	BOD mm	L mm	BRIMFUL CAPACITY water litres
TPX235	400	257	160	135	8,4
TPX156	435	275	200	137	10,3
TPX540	491	400	285	146	26,2
TPX173	510	310	235	119	17,3
TPX175	510	310	235	305	17,3
TPX176	510	310	235	203	17,3
TPX176 / T1080	510	310	235	203	17,3
TPX251	510	310	235	151	18,0
TPX740	543	443	310	146	36,0
TPX400	600	378	225	146	26,0
TPX475	600	378	225	272	28,0
TPX287	600	527	315	146	57,5
TPX387	630	616	355	146	94,0
TPX387PD	630	616	355	146	94,0
TPX843	673	432	220	146	42,2
TPX843 A HW	673	432	220	146	39,0
TPX843/BK	673	432	220	146	42,2
TPX843HW	673	432	220	146	39,0
TPX89	760	543	315	146	67,3
TPX891	760	543	315	250	72,4
TPX891HW A LS	760	543	315	293	68,7
TPX982HW	800	435	295	146	50,0
TPX412	800	616	355	146	116,0
TPX412HW	800	616	355	294	110,7
TPX600	806	365	255	146	36,3
TPX601	806	365	255	151	36,3
TPX602	806	365	255	89	36,3
TPX604R	806	365	255	220	41,2
TPX587	890	775	460	184	218,0
TPX1600	890	850	350	184	237,7
TPX512	900	616	355	146	140,4
TPX12	940	440	295	146	64,5
TPX13	975	550	350	146	109,6
TPX1800	980	850	350	184	275,0
TPXP1800	980	850	350	184	275,0
TPX8331	1125	541	320	146	140,5



BX Shape. For bale out furnaces

Salamander Excel & Himelt

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
BX164	375	464	280	33
BX168	492	527	315	55,5
BXP168	492	527	315	56
BX202	500	616	355	74
BXP302H525	525	616	355	95
BX169	551	527	315	64
BX600	585	725	305	120
BX171	600	527	315	71,1
BX1264	600	769	460	140
BX177	620	527	315	74
BX302	630	616	355	110
BX302/BK	630	616	355	110
BX1000	690	850	350	189
BX401/BK	700	616	355	124
BX401	700	616	355	124
BXH401	700	616	355	124
BX 247 H700	700	775	460	189
BX178	710	527	315	87
BX847	750	775	338	186
BX247	750	775	460	202,3
BXH247	750	775	460	202
BX402	800	616	355	145
BX402/BK	800	616	355	145,1
BXH402	800	616	355	145
BX402HWE	800	616	355	145
BX 263 H800	800	775	460	218
BX1802E	815	850	350	257
BX263	890	775	460	236,6
BXH263	890	775	460	236
BX 263 HW H800	890	775	460	215
BX263HW	890	775	460	215
BX502	900	616	355	156
BX719	950	720	380	235,6
BX1800	980	850	350	309
BX264	1000	775	460	288
BX1045 HW	1050	960	460	410
BX265H1100E	1100	775	460	317



SALAMANDER SUPER

Salamander Super is a high quality ceramic bonded clay graphite crucible range manufactured by plastic forming techniques. Salamander Super crucibles are used to provide consistent performance in fuel-fired furnaces and medium / high frequency induction furnaces.

The smaller sizes are typically used to melt precious metals, while larger sizes can be used for some ferrous alloys such as grey iron as well as to melt non-ferrous alloys. These crucibles are ideally suitable for applications requiring high liquid metal non-wettability with the crucible wall.

Typical Metal Casting Temperature

- 850°C - 1600°C

Performance Characteristics

- Clean melting
- Good thermal conductivity
- Good resistance to chemical corrosion
- High refractoriness



Identification

These crucibles are colored black and are available in a larger sizes used in induction furnaces of medium and high frequency

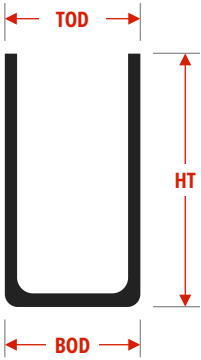
Pattern Range

Salamander Super crucibles are available in a range of sizes as A-shapes, F-shapes (bilge), and E-shape cylinders to suit a wide spectrum of end user requirements. Ladle liners are also available in standard or bottom pour configuration.

Cylindrical Crucible

Salamander Super

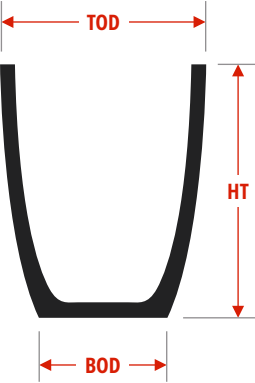
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres	APPROX. BRASS CAPACITY kg
E 303	200	110	110	1	6
E 323	318	165	165	4	25
E 375	270	205	195	4	26
E 305	500	310	310	21	120



A Shape

Salamander Super

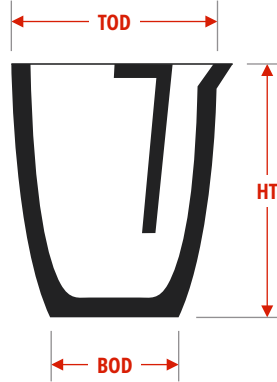
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres	APPROX. BRASS CAPACITY kg
A 5/0	35	32	24	0,01	0,1
A 3/0	52	46	30	0,03	0,2
A 1/0	67	60	41	0,1	0,6
A 0.5	78	68	48	0,1	1
A 1	97	79	55	0,2	2
A 1.5	92	90	55	0,2	2
A 2	109	95	61	0,3	3
A 3	127	105	70	0,5	4
A 4	141	114	76	1	6
A 5	152	124	86	1	7
A 6	165	130	95	1	9
A 7	175	140	105	1	11
A 8	184	156	108	2	13
A 10	200	160	110	2	16
A 12	210	171	121	2	20
A 16	232	184	130	3	23
A 20	260	197	145	4	30
A 25	280	210	155	5	36
A 30	290	232	160	6	43
A 40	318	232	160	7	50
A 50	324	248	180	8	60
A 60	362	276	190	10	77
A 70	315	292	200	12	93
A 80	397	300	210	14	105
A 100	400	324	230	16	120
A 120	435	333	240	18	138
A 150	452	362	250	22	168
A 200	491	400	285	32	239



A Shape

Salamander Super

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres	APPROX. BRASS CAPACITY kg
AP 30	290	232	160	6	43
AP 40	318	232	160	7	50
AP 50	324	248	180	8	60
AP 60	362	276	190	10	77
AP 70	375	292	200	12	93
AP 6	165	130	95	1	7
AP 12	210	171	121	2	16



Note

- 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)

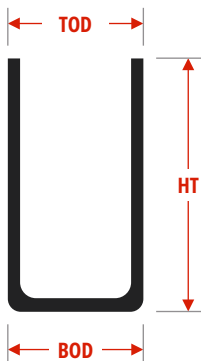
- Specific gravity of various metals are as below:

Aluminium	2.72	Gold	19.30
Brass	8.35	Zinc	7.12
Silver	10.50	Iron	7.85
Copper	8.90		

E Shape Cylindrical Crucible

Salamander Super

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres	APPROX. BRASS CAPACITY kg
E 93	200	135	103	2	13
E 93A	200	135	103	2	13
E 93B	200	135	103	2	13
E 95	180	130	112	2	11
E 96	250	130	112	2	17
E 96A	250	130	112	2	17
E 97A	320	130	124	2	17
E 115	155	67	54	0	1
E 125	124	65	50	0	1
E 202	105	100	70	0	3
E 203	95	97	67	0	3
E 205	150	100	70	1	5
E 205B	150	100	70	1	5
E 213	150	96	66	1	5
E 213A	150	97	66	1	5
E 217A	262	102	72	1	8
E 230	250	115	95	2	12
E 235	230	119	99	1	11
E 240	150	113	83	1	6
E 250	250	80	68	1	5
E 295	150	110	90	1	6
E 300	265	110	78	2	11
E 301	265	100	68	1	9
E 303	200	110	78	3	20
E 303A	200	110	78	3	20
E 323	318	165	115	4	30
E 324	400	165	115	6	45
E 375	270	205	195	4	31
E 406	156	82,5	63,5	0	3
E 467	152	70	34	2	18
E 468A	156	82,5	63,5	0	3
E 1251	128	67	50	0	1
E 1255	174	64	58	1	5
E 3003	270	100	80	1	9
E 3005	265	110	90	1	9
E 3005A	265	110	90	1	9
E 3013	88	58	47	0	1
E 3014	88	58	47	0	0
EA 323	310	180	130	4	31



ALPHA

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

- 400°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



Note

- 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	Gold	19.30
Brass	8.35	Zinc	7.12
Silver	10.50	Iron	7.85
Copper	8.90		

Note

- 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)

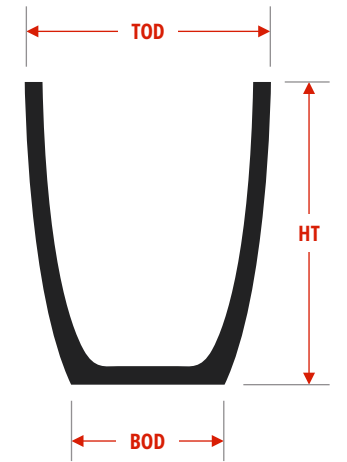
- Specific gravity of various metals are as below:

Aluminium	2.72	Gold	19.30
Brass	8.35	Zinc	7.12
Silver	10.50	Iron	7.85
Copper	8.90		

A Shape

Alpha

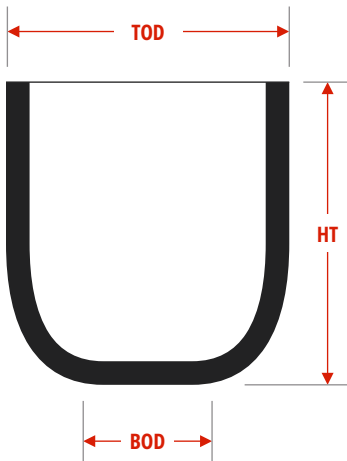
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
A 16	240	200	145	4
A 18	250	210	150	5
A 20	260	225	150	6
A 25	279	220	135	6
A 30	290	230	140	6
A 35	300	260	152	8
A 40	318	232	160	8
A 50	330	270	195	9
A 60	345	285	200	10
A 70	360	300	215	12
A 80	375	305	215	12
A 90	380	320	240	16
A 100	400	325	240	17
A 120	410	345	245	20
A 150	465	370	265	27
A 200	500	400	285	33
A 250	550	420	295	40
A 325	585	445	335	50
A 350	600	493	330	63
A 355	600	519	343	70
A 400	650	519	343	78
A 500	700	519	343	85
A 1100	900	650	400	161
A 1300	1100	650	400	186
A 1500	950	715	370	206
A 2500	1080	742	370	247



B Shape

Alpha

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
B 212	550	600	254	96
B 225	630	600	254	107
B 375	450	700	260	120
B 250	630	650	254	136
B 300	700	650	254	147
B 400	700	700	260	159
B 350	800	650	254	164



Note

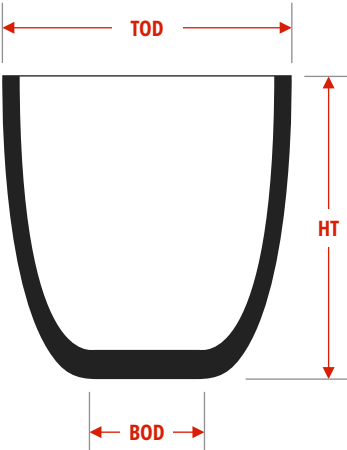
- Our crucibles are recommended for nonferrous alloys except those containing more than 30% of Nickel, Chromium or Iron.
 - Crucible working capacity: 90% of (Water liter Capacity x Specific gravity of the metal)
- Specific gravity of various metals are as below:

Aluminium	2.72	Gold	19.30
Brass	8.35	Zinc	7.12
Silver	10.50	Iron	7.85
Copper	8.90		

BU Shape

Alpha

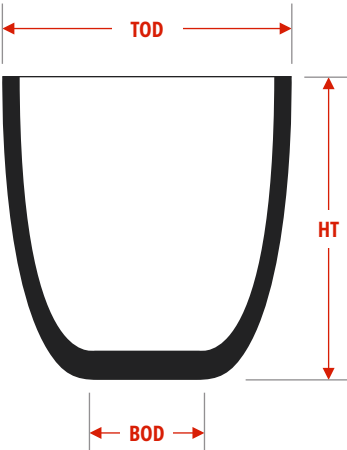
PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
BU 225	630	615	356	110
BU 250	660	615	356	115
BU 300	700	615	356	124
BU 350	800	615	356	146
BU 500	750	775	420	199
BU 550	800	775	420	222
BU 600	900	775	420	269
BU 700	1000	775	420	291
BU 750	790	950	500	319
BU 1000	1050	950	500	467
BU 1000L	1050	960	500	470
BU1270	1450	1270	600	1250
BU1525	1050	1525	650	1178



LB Shape

Alpha

PATERN	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY water litres
LB 110	336	370	286	15
LB 115	359	378	314	20
LB 140	483	457	432	50
LB 130	450	368	318	27
LB 145	501	578	425	71
LB 155	711	754	597	163



Note

- 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	Gold	19.30
Brass	8.35	Zinc	7.12
Silver	10.50	Iron	7.85
Copper	8.90		

Base Blocks

PATERN	HT mm	TOD mm	BOD mm	RECESS	SPIGOT
BBLOCK 6*2	50	152,4	152,4	N/A	N/A
BBLOCK 6*4	102	152,4	152,4	N/A	N/A
BBLOCK 7*2	50	178	178	N/A	N/A
BBLOCK 7*3	76	178	178	N/A	N/A
BBLOCK 7*4	102	178	178	N/A	N/A
BBLOCK 8*2	50	203	203	N/A	N/A
BBLOCK 8*3	76	203	203	N/A	N/A
BBLOCK 8*4	102	203	203	N/A	N/A
BBLOCK 9*1	25	229	229	N/A	N/A
BBLOCK 9*2	50	229	229	N/A	N/A
BBLOCK 9*1A	25	229	229	N/A	N/A
BBLOCK 9*3	76	229	229	N/A	N/A
BBLOCK 9*4	102	229	229	N/A	N/A
BBLOCK 9*6	152	229	229	N/A	N/A
BBLOCK 9*11	280	229	229	N/A	N/A
BBLOCK 10*1	25	254	254	N/A	N/A
BBLOCK 10*2	50	254	254	N/A	N/A
BBLOCK 10*3	76	254	254	N/A	N/A
BBLOCK 10*4	102	254	254	N/A	N/A
BBLOCK 10*5	127	254	254	N/A	N/A
BBLOCK 10*6	152	254	254	N/A	N/A
BBLOCK 10*8	203	254	254	N/A	N/A
BBLOCK 10*9	228	254	254	N/A	N/A
BBLOCK11*01	25	280	280	N/A	N/A
BBLOCK11*02	51	280	280	N/A	N/A
BBLOCK11*03	77	280	280	N/A	N/A
BBLOCK11*04	101	280	280	N/A	N/A
BBLOCK11*05	127	280	280	N/A	N/A
BBLOCK12*01	25	305	305	N/A	N/A
BBLOCK 12*02	51	305	305	N/A	N/A
BBLOCK 12*03	76	305	305	N/A	N/A
BBLOCK 12*04	101	305	305	N/A	N/A
BBLOCK 12*05	127	305	305	N/A	N/A
BBLOCK 12*06	152	305	305	N/A	N/A
BBLOCK 12*07	178	305	305	N/A	N/A
BBLOCK 12*08	200	305	305	N/A	N/A
BBLOCK 12*09	229	305	305	N/A	N/A
BBLOCK 13*2	50	331	331	N/A	N/A
BBLOCK 13*3	76	331	331	N/A	N/A
BBLOCK 13*4	102	331	331	N/A	N/A
BBLOCK 13*5	127	331	331	N/A	N/A
BBLOCK 13*6	152	331	331	N/A	N/A



Base Blocks

PATERN	HT mm	TOD mm	BOD mm	RECESS	SPIGOT
BBLOCK14*01	25	350	350	N/A	N/A
BBLOCK14*02	51	350	350	N/A	N/A
BBLOCK14*03	76	350	350	N/A	N/A
BBLOCK 14*04	101	350	350	N/A	N/A
BBLOCK14*06	152	350	350	N/A	N/A
BBLOCK 15*01	25	385	385	N/A	N/A
BBLOCK 15*02	51	385	385	N/A	N/A
BBLOCK 15*03	76	385	385	N/A	N/A
BBLOCK 15*04	101	385	385	N/A	N/A
BBLOCK 15*05	127	385	385	N/A	N/A
BBLOCK 15*06	152	385	385	N/A	N/A
BBLOCK 15*07	175	385	385	N/A	N/A
BBLOCK 15*08	203	385	385	N/A	N/A
BBLOCK 15*09	228	385	385	N/A	N/A
BBLOCK 16*1	25	406,4	406,4	N/A	N/A
BBLOCK 16*2	50	406,4	406,4	N/A	N/A
BBLOCK 16*3	76	406,4	406,4	N/A	N/A
BBLOCK 16*4	102	406,4	406,4	N/A	N/A
BBLOCK 16*5	127	406,4	406,4	N/A	N/A
BBLOCK 18*2	50	458	458	N/A	N/A
BBLOCK 18*3	76	458	458	N/A	N/A
BBLOCK 18*4	102	458	458	N/A	N/A
BBLOCK 18*5	127	458	458	N/A	N/A
BBLOCK 18*6	152	458	458	N/A	N/A
BBLOCK 20*2	50	508	508	N/A	N/A
BBLOCK 20*4	102	508	508	N/A	N/A
BBLOCK 20*5	127	508	508	N/A	N/A
BBLOCK 20*6	152	508	508	N/A	N/A
BBLOCK 20*8	203	508	508	N/A	N/A
BBLOCK 25*2	50	635	635	N/A	N/A
BBLOCK 25*4	102	635	635	N/A	N/A
BBLOCK 25*5	127	635	635	N/A	N/A
BBLOCK 28*2	50	712	712	N/A	N/A
BBLOCK 28*3	76	712	712	N/A	N/A
BBLOCK30*02	51	762	762	N/A	N/A
BBLOCK30*03	76	762	762	N/A	N/A
BBLOCK30*04	101	762	762	N/A	N/A
BBLOCK30*05	127	762	762	N/A	N/A
BBLOCK30*06	152	762	762	N/A	N/A
BBLOCK11*2.5	65	300	300	N/A	N/A
BBLOCK13.7*2.5	65	350	350	N/A	N/A
BBLOCK12.5*2.5	65	320	320	N/A	N/A



Inside Coatings

PD Coating

A high-purity, high-alumina coating sintered onto the crucible's interior during manufacturing. A dense barrier that enhances performance and extends crucible life.

Features

- Very low, almost negligible flux absorption
- Prevention of dross adhesion
- Prevention of contamination of the melt by crucible body material
- Wear resistance

Typical Applications

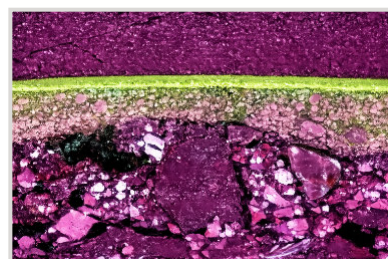
- Aluminium alloys (particularly effective at preventing attack on crucible body by aggressive modifying agents such as sodium, sodium salts, strontium)
- Zinc distillation and zinc oxide production
- Precious metal melting

Physical & Technical Properties

- Colour: **White**
- Max. application temp: **1600°C**

Note

PD Coating can be supplied on any of the carbon bonded silicon carbide or clay graphite crucibles manufactured by MMS.



Microstructure of PD coating

PRO Coating

Lower dross adhesion & lower impurities in molten metal.

Features

- High non-wettability leading to low dross adhesion
- Low impurity leak into molten metal
- Thin, low porosity, high density coat due to micro-scaled ingredients

Typical Applications

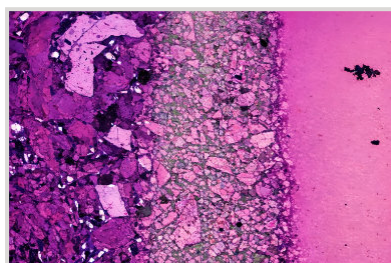
- High purity aluminium metal (99.999%)
- Aluminium alloys
- Zinc distillation
- Precious metal melting

Physical & Technical Properties

- Colour: **White**
- Max. application temp: **1600°C**

Usage Instructions

- All types of crucibles
- All types of furnaces
- Installation and pre-heating procedures of coated crucibles remain unchanged.



Microstructure of PRO coating

PURECOAT Coating

Lower dross adhesion & improved crucible performance.

Features

- Excellent non-wettability leading to low dross adhesion
- Low coating thickness
- Low porosity, high density coat due to nano-scaled ingredients

Typical Applications

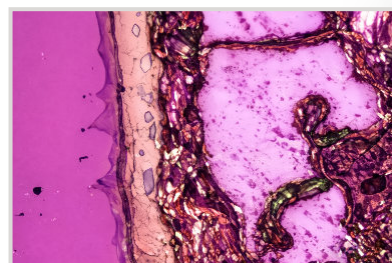
- Zinc distillation
- Aluminium alloys
- Copper melting

Physical & Technical Properties

- Colour: **White**
- Max. application temp: **1500°C**

Usage Instructions

- All types of crucibles
- All types of furnaces
- Installation and pre-heating procedures of coated crucibles remain unchanged.



Microstructure of PureCoat coating

RESCOAT Coating

Better erosion resistance & improved crucible performance.

Features

- Exceptional erosion resistance
- High non-wettability leading to low dross adhesion
- Low coating thickness
- Low porosity, high density coat due to Nanoscaled ingredients

Typical Applications

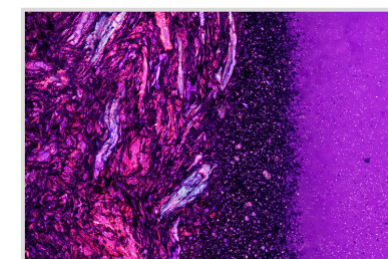
- Copper and copper alloys melting using fluxes
- Precious metal refining
- Zinc distillation

Physical & Technical Properties

- Colour: **Grey**
- Max. application temp: **1600°C**

Usage Instructions

- All types of crucibles
- All types of furnaces
- Installation and pre-heating procedures of coated crucibles remain unchanged.

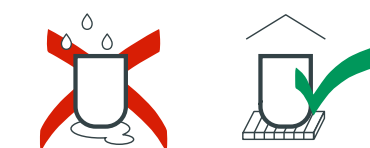


Microstructure of PD coating

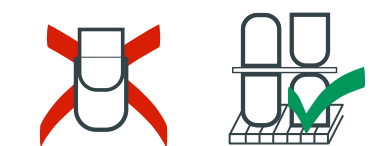


Crucible Handling

Storage

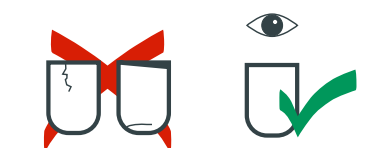


Store crucibles in a warm, dry place.



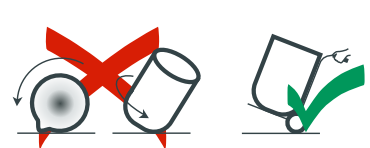
Do not stack crucibles, or store one crucible inside another.

Crucible inspection



Crucibles should be checked thoroughly for signs of damage before use.

Transportation

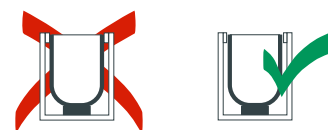


Crucibles should only be moved by sack truck with padding.

Installation



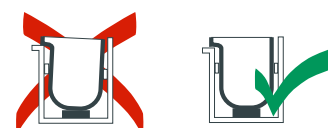
The appropriate stand must be used, and it must be positioned centrally, and aligned correctly.



Ceramic fibre blanket should be used for sealing/packing the top edge in bale-out and some tilting furnaces.



Leave a sufficient gap around the crucible to furnace cover / furnace wall.



Use correctly positioned grip bricks in tilting furnaces.



The flame direction should be tangential to the crucible.

Charging



Ingots should be placed carefully into the crucible, using tongs.



Put in returns (scrap) first, then add ingots vertically.

Melting

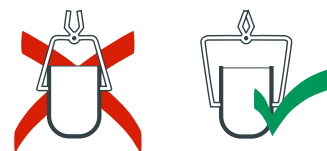


Only add flux after the metal is molten.

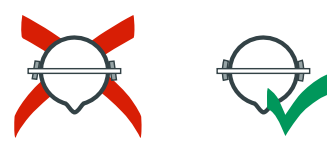


Avoid premature crucible failure by ensuring that the furnace drain hole is sealed..

Casting



Basket tongs must hold the crucible on its lower third for lifting.



Tongs must fit evenly on both sides.



The crucible must be emptied before switching off the furnace.

Cleaning



The crucible should be cleaned out by careful scraping while it is still red hot.

How to make an enquiry and place an order

When making an enquiry or placing an order for the time, please provide the following information regarding your application:

- Furnace type
- Recommended crucible size
- Heating mode of furnace (gas, oil, electrical resistance or induction heated)
- Alloy to be melted
- Furnace temperature
- Process (melting, holding, shift cycle)
- Frequency of flux treatments

Selection of the most appropriate crucible, when combined with the observance of correct practices, will help to reduce your melting costs.

Please do not hesitate to contact us for further customised products.

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