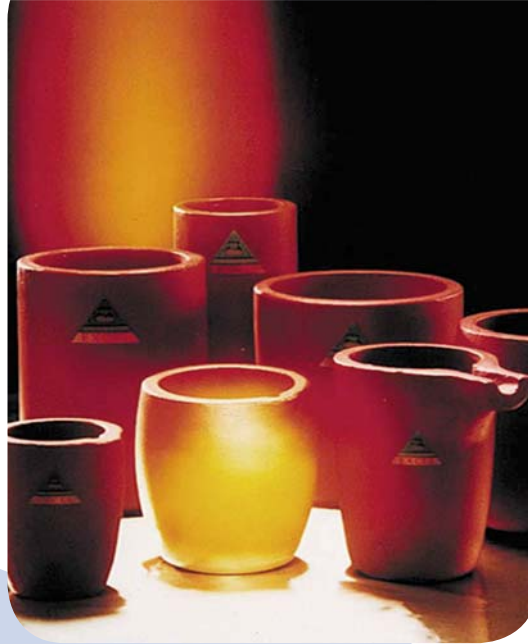
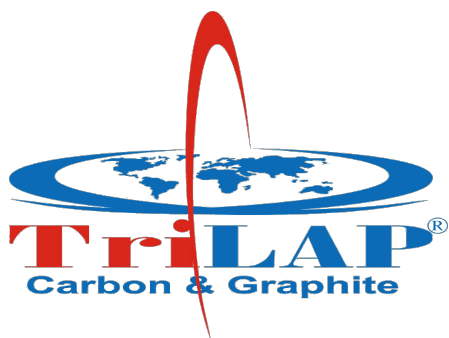


Certified according to
ISO 9001 : 2008
Certificate No. 24532



Highest
Quality
Crucibles

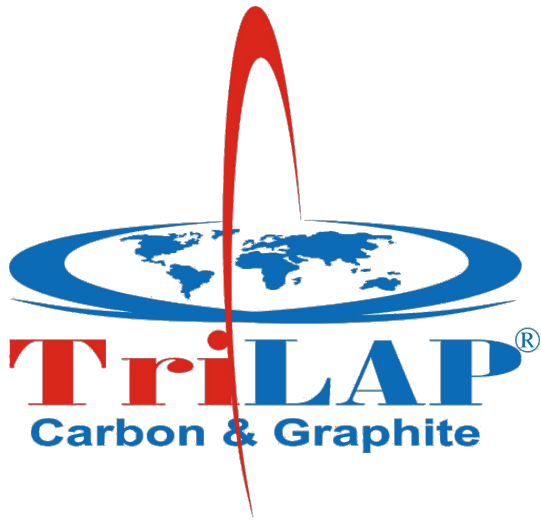


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Product Catalogue



Innovating tomorrow's solutions ... today



TriLAP Carbon & Graphite
(Morgan AM&T Vietnam)

Suite 207, C6, Giang Vo, Ba Dinh , Ha Noi .

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DESCRIPTION

Morganite Silicon Carbide Crucibles, Clay Graphite Crucibles and IsoPressed Crucibles are of superior quality as they undergo the most stringent quality-control test at our R&D laboratory. The manufacturing plants at Aurangabad and Mehsana have the most modern processing facilities with state-of-the-art technology based on environment-friendly resin bonding / clay bonding and a quality system established as per international standards with an ISO 9001:2008 certification. Manufactured from carefully selected flake graphite and silicon carbide and bonded with resin, our silicon carbide crucibles offer the following advantages:

ADVANTAGES OF RESIN BONDED SILICON CARBIDE CRUCIBLES

HIGH RESISTANCE TO THERMAL SHOCK

Crucibles, in use, are often subjected to the stresses created by rapid and/or uneven changes of temperatures, which in extreme cases, can lead to premature failure. Outstanding resistance to thermal shock is imparted to our crucibles as the heat is distributed quickly throughout the crucible, by usage of selective grades of flake graphite and silicon carbide.



HIGH RESISTANCE TO EROSION

The flow of molten metal and charging the crucible with solid metal leads to abrasion and erosion of the inside wall. The high proportion of silicon carbide in our crucibles imparts better strength, greater hardness, and high resistance to erosion.

HIGH RESISTANCE TO CHEMICAL ATTACK BY FLUXES AND SLAGS

Though graphite is chemically inert and resistant to corrosive chemicals, the bond is often susceptible to chemical attack by fluxes and slags. Our crucibles made of chemically inactive graphite, silicon carbide and carbon, resist attack by the alkaline fluxes used for light alloys; the oxidising/reducing fluxes used for copper alloys and the corrosive slags formed from them.

HIGH RESISTANCE TO ATMOSPHERIC OXIDATION

Graphite oxidises progressively in air as the temperature is raised. Most crucibles have an external glaze to prevent this. As no external glaze is perfect by itself, invariably oxidation of graphite occurs, leading to loss of thermal conductivity and reduction in strength of the crucible. To provide extra resistance to oxidation, we have protective agents incorporated in the body in addition to the external glaze.

CONSTANT MELTING SPEED

The superior oxidation resistance of our crucibles ensures that they retain a constant melting speed to the end of their long life. More heats per day means more output, but equally important is the consistency of output which enables the foundrymen to schedule their productive more effectively.

FUEL ECONOMY

The amount of fuel needed to melt, in an ordinary crucible increases steadily as the crucible oxidises and loses speed. The consistent high melting speed of our crucibles makes for substantial fuel saving in comparison to other crucibles.

LOWER METAL LOSS

The amount of metal lost by oxidation during the melting process is proportional to the time taken to melt and cast the charge. Our crucibles, with their higher than average melting speed, reduce the overall melting time to a minimum and consequently make an essential contribution for reducing metal losses.



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HANDLING CRUCIBLES

- Always handle crucibles with care.
- Damage to glaze could adversely affect its performance.
- Never roll a crucible on a hard floor.

STORING CRUCIBLES

- Store crucibles in a warm, dry place.
- Stand crucibles on pallets, never directly on the floor.
- Never stack crucibles inside one another.
- When stacking crucibles, separate the layers with hardboard.

EXAMINATION OF THE FURNACE

- Before installing the crucible and stand in the furnace, check the condition of the refractory lining and make any necessary repairs.
- Remove any loose debris from the bottom of the furnace chamber.
- Ensure that the drain hole is clear and that the drain hole flap can move freely.
- In electric resistance furnaces check the condition of elements. Because of the risk of oxidation in electric resistance furnaces it is particularly important to eliminate the entry of air into the furnace chamber. The drain hole should be sealed with a thin zinc plate and all other apertures made air tight.

INSTALLING THE CRUCIBLE

- The use of a stand made of the same material will help to ensure uniform heating of the base of the crucible and so reduce thermal strains.
- The stand should have the same diameter as the base of the crucible in order to provide adequate support.
- For optimum heat transfer and melting efficiency:
- The height of the stand should be such that the base of the Crucible is on level with the centre line of the burner.
- The stand and crucible should be installed centrally in the furnace.

LIFT OUT FURNACES

- Sprinkle a thin layer of coke or other carbonaceous material on top of the stand to prevent the crucible from sticking to it.
- Always place the crucible centrally on the stand.
- Rocking and levering to free a crucible which has stuck to the stand can cause fractures in the lower wall of the crucible.

BALE OUT FURNACES

- Set the top cover bricks to leave a gap of 8 mm around the crucible to allow for expansion of the crucible and the furnace lining. Too small a gap can lead to cracking at the top of the crucible.
- Place a layer of insulating material, such as ceramic fibre over the top of the lining and the top edge of the crucible in order to insulate the metal top plate. Do not push the insulating material down between the cover bricks and the crucible.
- If the steel top ring is fitted, ensure that there is a gap of 12 mm between it and the inside of the crucible to allow for expansion. Too small a gap can lead to cracking at the top of the crucible.

TILTING FURNACES

- Set the stand on the metal stand in the recess at the base of the furnace. Ensure that it is firm, central and level.
- Spread cement evenly over the top of the stand excluding the spigot.
- Place the crucible centrally on to the stand.
- Cement the key/grip bricks on to their support bricks in the furnace lining, leaving 6-10 mm gap between crucible and key bricks.
- Insert cardboard or carbonaceous material in the gap.
- Place key bricks 75 mm below the top edge of the crucible.
- Leave a gap of about 40 mm below the spout, to avoid the crucible hanging up on the spout.

CHARGING

- As soon as the crucible becomes red hot all over, charge and melt immediately .
- Charge the crucible in a vertical position.
- Charge light scrap first to form a cushion for a heavier metal to follow.
- Use tongs to charge ingots.
- Place ingots and large pieces vertically.
- Do not pack the metal tightly in the crucible.

CRUCIBLE WARM UP PROCEDURE

- Crucible should be preheated empty.
- Do not charge ingot or scrap until the crucible is red hot.
- The burner flame should be controlled to ensure the crucible is brought up to red heat (950m C) as per the Heating Recommendations.

MELTING AND POURING

- Melt as quickly as possible.
- Avoid overheating the melt.
- Always melt to the lowest possible temperature compatible with the casting.
- Avoid stewing the molten metal for long periods.
- Avoid delay between heats and use the crucible for as many melts a day as possible.

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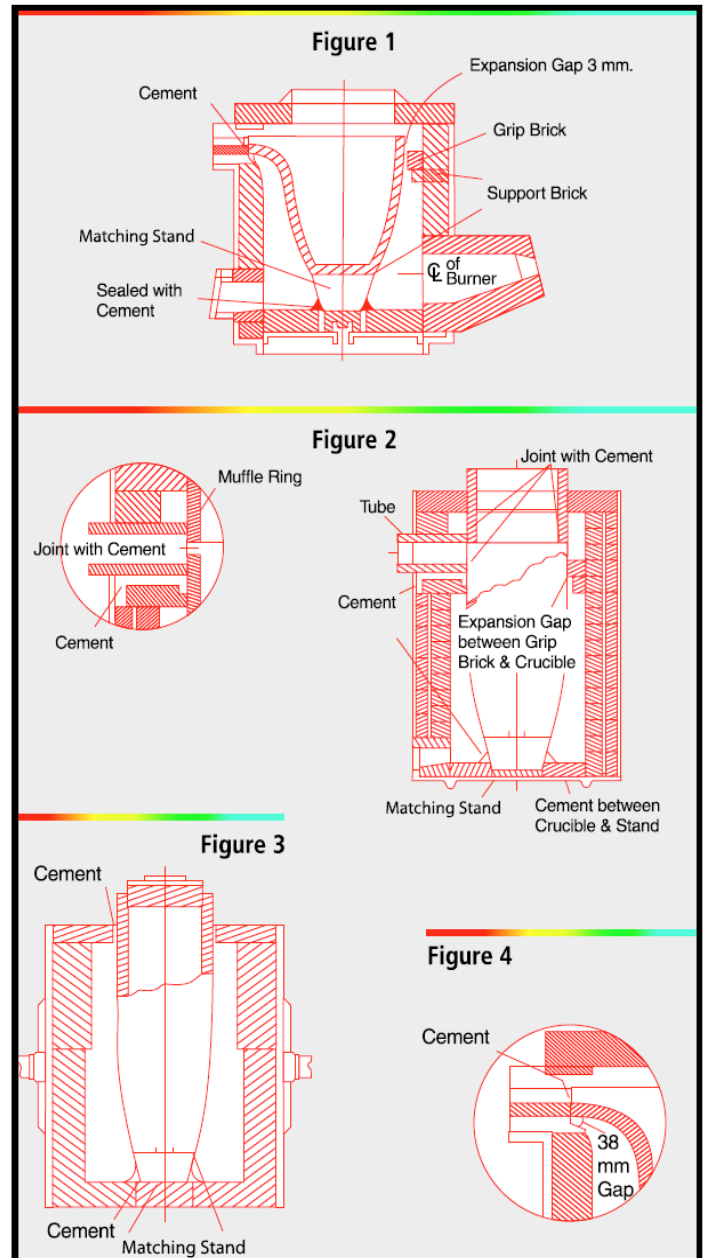
FLUX ADDITIONS

Ensure that the correct flux is used for:

- The alloy being treated.
- Temperature of the alloy.
- Use minimum quantity of flux to satisfy metallurgical requirements.
- Any unnecessary increase in melt temperature will result in accentuated attack on the crucible with a drastic reduction in crucible life.

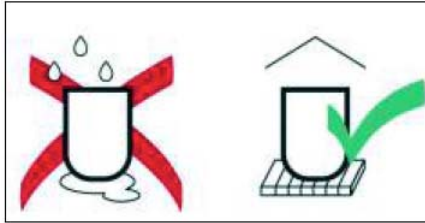
CLEANING OUT

- Crucibles should be cleaned out by careful scraping when the crucible is red hot.
- Slag left in the crucible leads to rapid thinning of crucible wall in subsequent melts.
- Dross/Oxide left in the crucible leads to longer melt times, higher fuel consumption and shorter crucible life in subsequent melting.

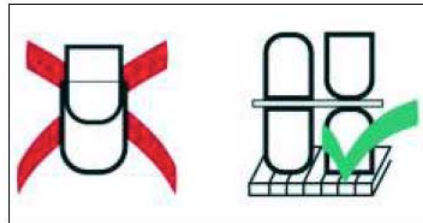


Recommendations for care and use of crucibles.

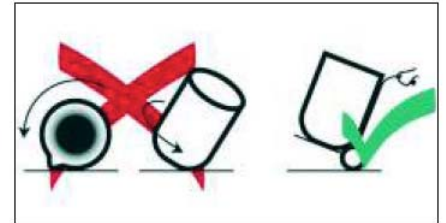
The following practices should be observed in order to achieve the maximum possible crucible life. If any further advice or information is required, please contact our sales or technical staff.



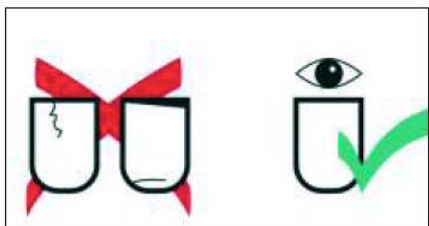
Store crucibles off the floor in a dry, warm place.



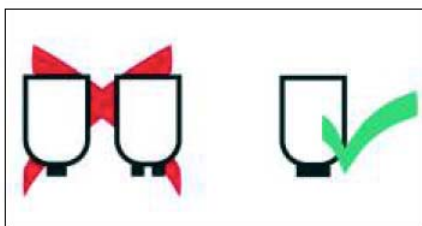
Do not nest one inside another. Separate layers with hardboard.



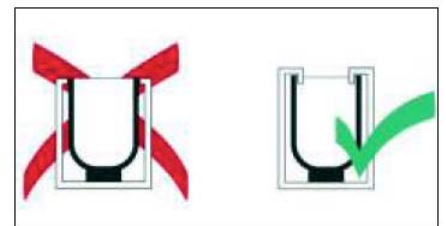
Do not roll crucibles. Move using a sack truck with padding.



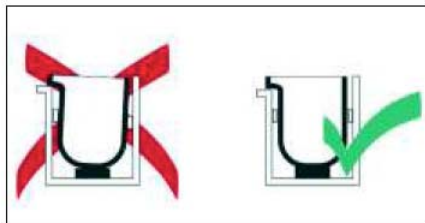
Check thoroughly for cracks or damage before use.



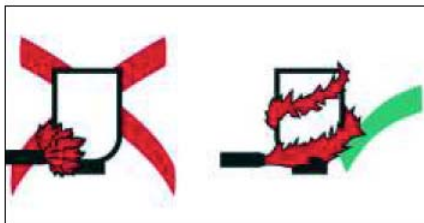
Use the correct crucible stand which must be central and support the whole base.



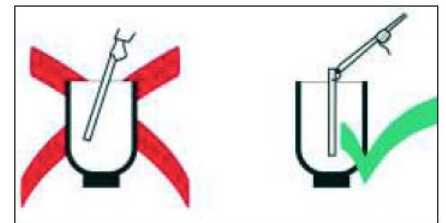
Allow space for expansion between crucible and furnace lining/cover.



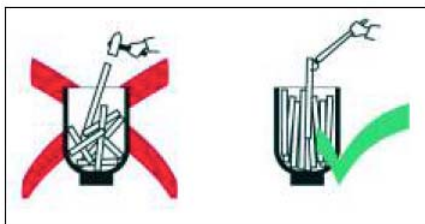
Use correctly positioned grip bricks in tilting furnaces, leaving gaps for expansion. Do not hang crucible on spout.



The flame path must be tangential to the crucible.



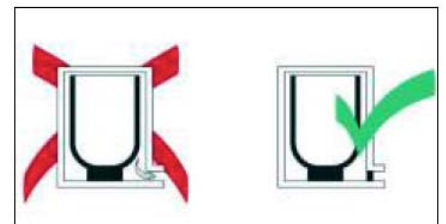
Ingots should be loaded carefully into the crucible using tongs.



First charge with light returns, as a cushion, then add ingots vertically.



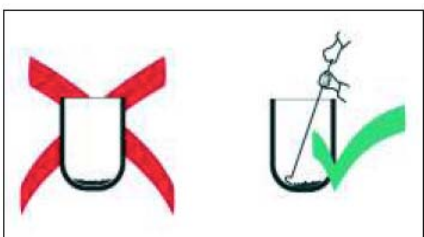
Only add flux after the metal is molten.



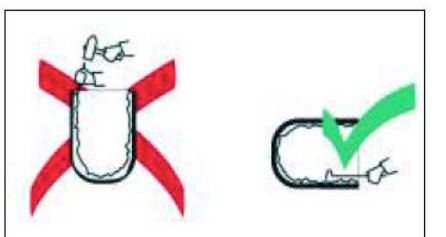
Avoid ingress of cold air by ensuring that the drain hole is sealed.



Lift-out tongs should hold crucible on its lower third and fit evenly on both sides.



The crucible must be emptied before switching off the furnace.



The crucible should be cleaned out carefully every day while still red hot.

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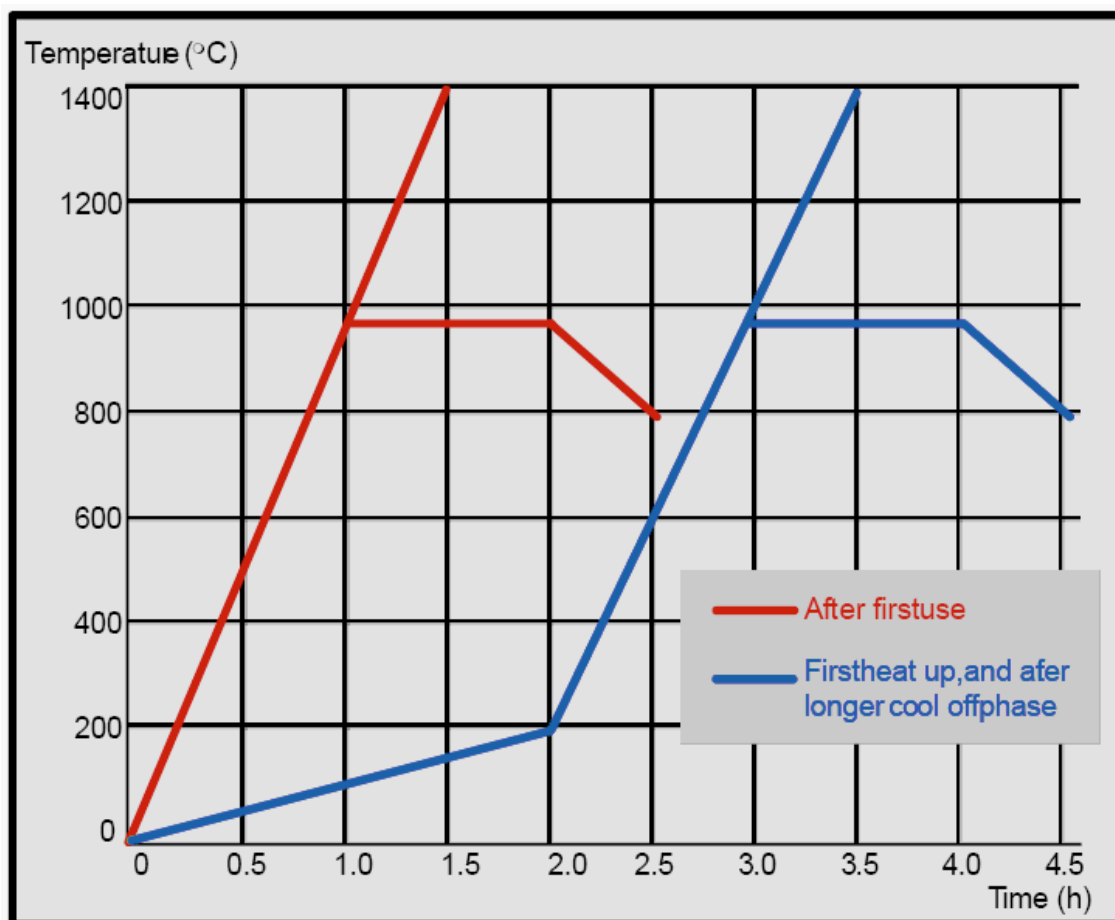
HEATING RECOMMENDATIONS FOR SILICON CARBIDE CRUCIBLES (SUPREX)

After installation in the furnace, the crucible 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. Afterwards, Silicon Carbide 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 1 hour. This ensures even melting of the glaze with the additional anti-oxidation coating, which is essential to achieve the maximum possible crucible life. 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 crucible not be used for a longer 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 installed. It is essential that the crucible is installed in an absolutely dry furnace.



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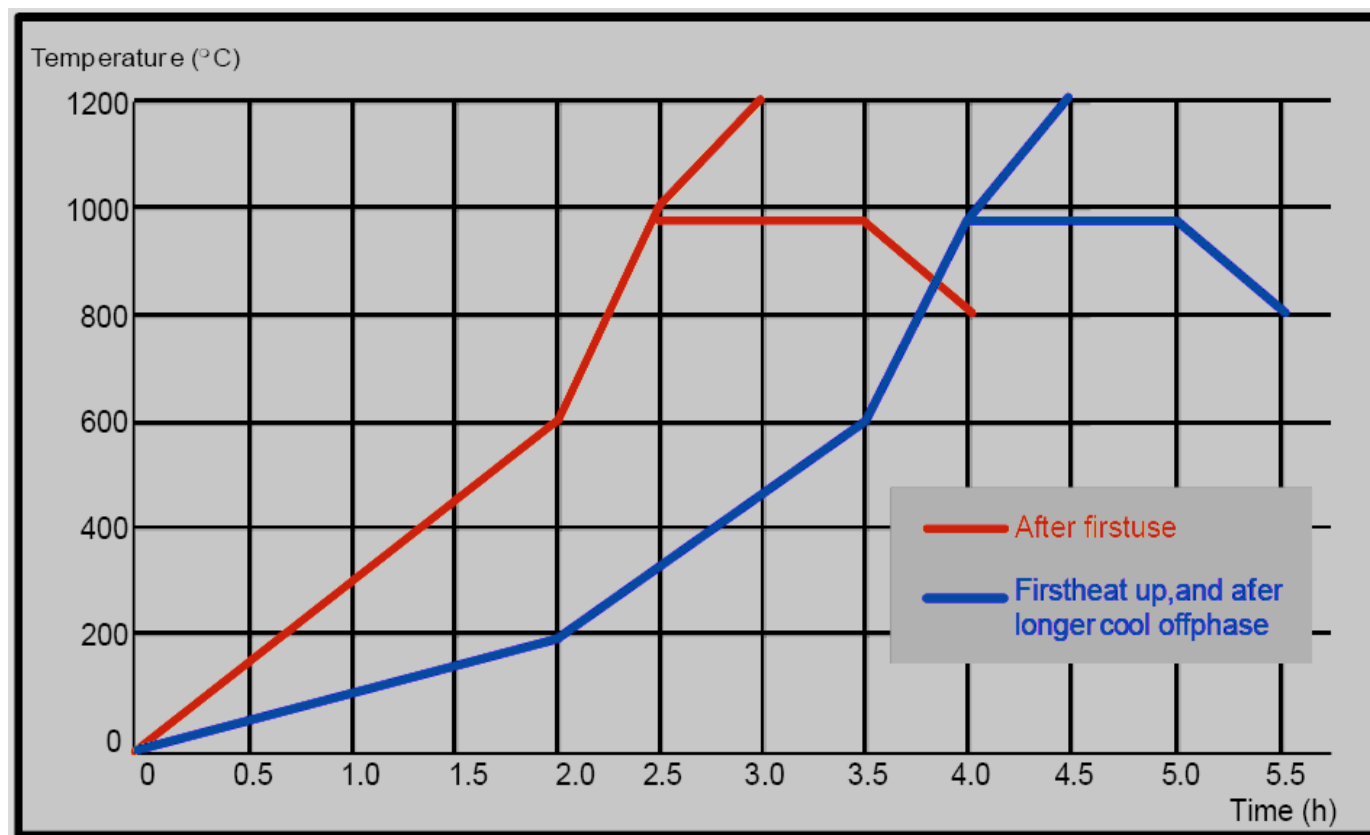
HEATING RECOMMENDATIONS FOR CLAY/GRAPHITE CRUCIBLES (SALAMANDER, ALPHA, SIGMA)

After installation in the furnace, the crucible 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. Afterwards, Clay/Graphite 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), or the desired working temperature, if higher.

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 anti-oxidation coating, which is essential to achieve the maximum possible crucible life. 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 Clay/Graphite crucible not be used for a longer 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 Clay/Graphite 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 installed. It is essential that the crucible is installed in an absolutely dry furnace.



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SYMPTOM	CAUSE
1. Vertical cracks	
a. Vertical cracks anywhere, crucible wall very thin the crack and the crucible generally showing of wear.	1a. This indicates that the crucible has worn out and has cracked owing to thinning and loss of strength.
b. Vertical crack in chine, extending across the bottom. Crucible may be nearly new or unworn.	1b. This type of failure is due to excessively rapid heating of the chine when the crucible is cold and is known as “stunting”. It is caused by putting a cold crucible into a hot fire or by warming up a cold crucible too fast. The condition is often accompanied by glaze flaking due to the thermal shock.
c. Vertical crack from the top edge.	1c. This failure can also be caused by rapid heating, especially when the bottom and chine of the crucible are heated much faster than the top. A “wedge” near the top edge can also cause this failure. Similarly, badly fitting tongs or a knock on the edge may cause some mechanical damage or distortion should be visible
d. Vertical crack in wall not extending to the top or bottom.	1d. This is usually due to pressure from the inside that may be caused by the charge wedging into the crucible when cold, and subsequently expanding as it heats up. Cracks due to “wedging” in this manner are usually wider on the outside than on the inside and the edges of the cracks may show a “step” as if one section of the pot has been forced outwards.
2. Lateral cracks	
a. Near bottom — possibly resulting in the bottom coming off.	2a. This may be due to mechanical damage, such as an ingot being dropped in, or a blow from a poker. It may also be caused by thermal strains as in (1b).
b. Just about half way up in a “rapid” crucible.	2b. This failure may be caused by the crucible being stuck to its stand or fixed up in a bed of clinker. If the crucible is then gripped up rather high in the tongs and pulled hard by a crane or levered about to free it, it may part just below the tongs.
c. In spouted TP Crucibles, a lateral crack below the spout.	2c. This may be caused by bad crucible setting in the furnace. If fire clay is packed tightly under the spout when a new crucible is set, any subsequent contraction of the crucible will leave it suspended by its spout, causing the crack.

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SYMPTOM	CAUSE
3. Star cracks	
a. In the base of the crucible.	3a. Due to thermal strains as in (1b).
b. In the side wall of crucible	3b. Due to wedging as in (1d). Usually shows bulging.
4. Holes in crucible	
a. A large hole in a crucible that has not worn thin...	4a. Almost invariably due to a heavy blow, as from throwing in an ingot. In such a case, the piece knocked out is usually much smaller on the side which was hit than on the other side.
b. Pinholes	4b. Usually these are actually leaks on a crack. Break up and look for crack.
c. Crucible worn thin	4c. Worn-out
5. Excessive wear or erosion	
a. Inside at metal level.	5a. Caused by flux or metal oxides floating on the metal. Avoid excessive oxidation or flux addition and avoid "stewing" and overheating, do not add flux too soon.
b. Inside all over	5b. Due to corrosive charge, such as Ferro chrome, or by flux added at the bottom of the crucible before charging metal. Can be minimised by avoiding overheating and stewing
. c. At the bottom and chine, outside in coke fired furnaces.	5c. This is caused by attack of coke, ash and slag, due to poor coke and/or overheating and/or standing it on a hard floor when lumps of coke have stuck to the bottom.
d. Outside, in pits and craters.	5d. Due to attack fluid or flux which has soaked through the crucible and attacked on the outside which is hotter
6. Miscellaneous	
a. Crocodile cracks outside	6a. A network of cracks, like crocodile skin, are caused by perishing.
b. Slow melting.	6b. Also caused by perishing
c. Flaking of glaze.	6c. This may be caused by thermal shocks as 1(b), the usual cause is putting a cold pot into a hot furnace.
d. Bottom bulged upwards and cracked.	6d. Due to setting the crucible down on a hard floor when a piece of coke or other material has stuck to bottom
e. Bottom cracking when there is a thick dross layer inside	6e. Due to expansion of the dross.
f. Green colouration outside crucible accompanied by softening.	6f. This is the result of long exposure to a high temperature over 1460°C.
g. Places detached from bottom or chine of new pot.	6g. Due to "bumping" of a damp pot.
h. Stunting	6h. Occurs due to differential expansion between any parts of the pot at excessively different temperatures. Do not subject the crucible to: rapid heating or uneven temperature distribution
i. Oxidizing	6i. When crucible is subjected to an oxidizing atmosphere at temperature between 600°C and 900°C.

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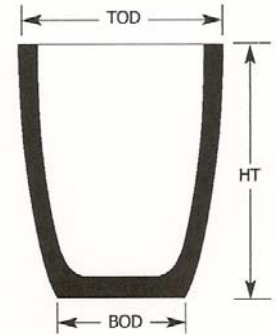
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"A" SHAPE SILICON CARBIDE CRUCIBLES FOR OVER LIFT OUT AND BALE OUT FURNACES

PATTERN	PART DESCRIPTION	HT mm	OUTSIDE DIAMETER		BRIMFUL CAPACITY WATER Litres	APPROXIMATE BRASS CAPACITY kgs.
			TOD mm	BOD mm		
AC31	A&0248H0324&	324	248	180	8.5	64.0
AC36	A&0276H0338&	338	276	190	9.5	71.0
AC41	A&0276H0362&	362	276	190	11.0	83.0
AC61	A&0305H0405&	405	305	210	15.5	116.0
AC81	A&0328H0410&	410	328	230	17.4	131.0
AC101	A&0335H0440&	440	335	240	20.0	150.0
AC121	A&0374H0452&	452	374	250	22.2	167.0
AC160	A&0385H0452&	452	385	230	27.3	205.0
AC175	A&0385H0472&	472	385	230	28.5	214.0
AC180	A&0385H0498&	498	385	230	30.4	228.0
AC190	A&0385H0548&	548	385	230	34.0	255.5
AC200	A&0400H0495&	495	400	285	33.2	249.5
AC205	A&0430H0505&	505	430	250	37.8	284.0
AC230	A&0430H0541&	541	430	250	40.0	301.0
AC250	A&0430H0555&	555	430	260	43.0	323.0
AC255	A&0450H0585&	585	450	250	48.0	361.0
AC265	A&0437H0615&	615	437	250	48.0	361.0
AC280	A&0437H0635&	635	437	250	50.1	376.0
AC300	A&0440H0555&	555	440	310	44.5	334.0
AC330	A&0474H0585&	585	474	260	54.0	406.0
AC350	A&0474H0630&	630	474	260	59.5	447.0
AC355	A&0474H0635&	635	474	315	62.0	466.0
AC375	A&0474H0685&	685	474	315	71.7	539.0
AC400	A&0530H0650&	650	530	315	78.6	591.0
AC405	A&0530H0705&	705	530	315	86.1	647.0
AC410	A&0527H0685&	685	527	315	82.0	616.0
AC500	A&0565H0685&	685	565	355	93.0	699.0
AC510	A&0567H0720&	720	567	355	97.0	729.0
AC555	A&0570H0765&	765	570	355	103.0	774.0
AC610	A&0572H0800&	800	572	355	115.0	864.0
AC650	A&0585H0830&	830	585	355	125.0	1089.0



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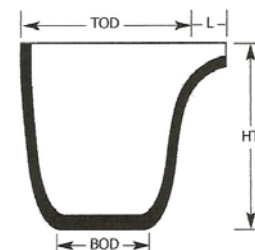
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TPC SHAPE SILICON CARBIDE CRUCIBLES

"P" Shape For Over Top Crucibles For Tilting Furnaces							
PATTERN	PART DESCRIPTION	HT mm	OUTSIDE DIAMETER		BRIMFUL CAPACITY WATER Litres	APPROXIMATE BRASS CAPACITY Kgs	RECESS
			TOD mm	BOD mm			
TPC5	P&0437H0675&-VT	675	437	250	55.0	413	Y
TPC8	P&0450H0800&-VT	800	450	295	68.2	512	Y
TPC10	P&0450H0940&-VT	940	450	295	82.7	621	Y



Spouted Crucibles For Tilting Furnaces									
PATTERN	PART DESCRIPTION	HT mm	OUTSIDE DIAMETER		BRIMFUL CAPACITY WATER Litres	APPROXIMATE BRASS CAPACITY Kgs	SPOUT LENGTH IN mm	RECESS	
			TOD mm	BOD mm					
TPC175	A&0385H0472T-LA2H146	472	385	230	25.0	188	146	-	
TPC355	A&0474H0635T-LA2H146-VT	635	474	315	53.0	398	146	Y	
TPC400	P&0385H0600T-LA2H146-VT	600	385	280	30.0	225	146	Y	
TPC740	A&0440H0555T-LA2H146	555	440	310	33.0	248	146	-	
TPC843	P&0437H0675T-LA2H146-VT	675	437	250	44.4	334	146	Y	
TPC982	P&0450H0800T-LA2H146-VT	800	450	295	62.0	466	146	Y	
TPC12	P&0450H0940T-LA2H146-VT	940	450	295	73.7	554	146	Y	
TPC983	P&0450H0800T-LA2K200-VT	800	450	295	62.0	466	200	Y	
TPC984	P&0450H0855T-LA2K146-VT	855	450	295	68.0	511	146	Y	
TPC89	A&0572H0800T-LA2J146-VT	800	572	355	101.0	759	146	Y	

Spouted Basins For Tilting Furnaces									
PATTERN	PART DESCRIPTION	HT mm	OUTSIDE DIAMETER		BRIMFUL CAPACITY WATER Litres	APPROXIMATE ALUMINIUM CAPACITY Kgs	SPOUT LENGTH IN mm	RECESS	
			TOD mm	BOD mm					
TPC287	BU0527H0600T-LA2J146	600	527	315	59.5	144	146	-	
TPC387	BU0616H0630T-LA2J146	630	616	355	93.0	226	146	-	
TPC412	BU0616H0800T-LA2J146	800	616	355	128.0	311	146	-	
TPC412A	BU0616H0800T-LA2J146-VT	800	616	355	128.0	311	146	Y	
TPC588	BU0775H0890T-LA2J146	890	775	460	225.0	547	146	-	
TPC264	BU0775H1000T-LA2P184	1000	775	460	247.0	600	184	-	
TPC947	BU1000H0775T-LA2P184	1000	775	338	259.0	629	184	-	
TPC849	BU0925H0775T-LA2J146	925	775	338	231.0	561	146	-	
TPC852	BU1140H0850T-LA2P184	1140	850	450	395.0	957	184	-	
TPC2600	BU1124H0850T-LA2I185	1244	850	350	418.5	1016	185	-	

- Spout length is measured from the outside of the crucible
- Standard Spout length is 146 mm
- Spout with length upto 280 mm is available
- Any Basic model of AC and BC series can be converted to spouted model.

Notes

- The dimensions shown are nominal and subject to normal manufacturing tolerances.
- Our crucibles are recommended for non-ferrous alloys except those containing more than 30% of Nickel, Chromium or Iron.
- Working capacities are based on Brass Specific Gravity 8.35 and Aluminium Specific Gravity 2.7 and 90% of Brimful Capacity approx.

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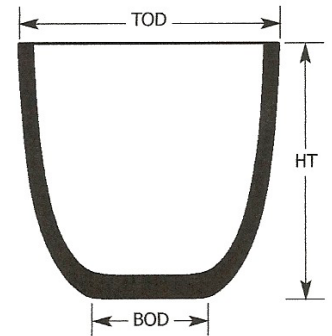
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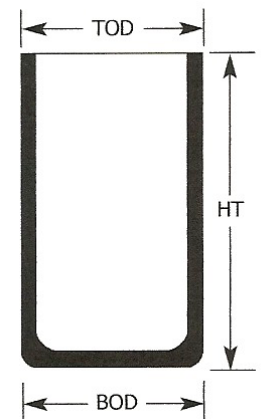
BC SHAPE SILICON CARBIDE CRUCIBLES FOR BALE OUT FURNACES

PATTERN	PART DESCRIPTION	HT mm	OUTSIDE DIAMETER		BRIMFUL CAPACITY WATER Ltrs	APPROXIMATE ALUMINIUM CAPACITY Kgs
			TOD mm	BOD mm		
BC164	BU0517H0300&	300	517	315	25.5	62
BC166	BU0527H0400&	400	527	315	44.5	108
BC167	BU0527H0450&	450	527	315	51.5	125
BC168	BU0527H0492&	492	527	315	59.5	145
BC171	BU0527H0600&	600	527	315	73.6	179
BC202	BU0616H0500&	500	616	355	79.9	194
BC302	BU0616H0630&	630	616	355	110	267
BC401	BU0616H0700&	700	616	355	124	301
BC402	BU0616H0800&	800	616	355	145.1	352
BC247	BU0775H0750&	750	775	460	202.3	491
BC263	BU0775H0890&	890	775	460	236.6	575
BC264	BU0775H1000&	1000	775	460	288	700
BC265	BU0775H1245&-RW	1245	775	460	386	938
BC174	BU0397H0394&	394	397	215	25	50
BC847	BU0775H0750&	750	775	338	191	441
BC850	BU0850H0750&	750	850	450	254	595
BC947	BU1000H0775&	1000	775	338	294	714
BC849	BU0925H0775&	925	775	338	265	644
BC2600	BU0850H1244&	1244	850	350	414	1025
BC724	BU0720H0800&	800	720	380	214	520
BC719	BU0720H0950&	950	720	380	240	584



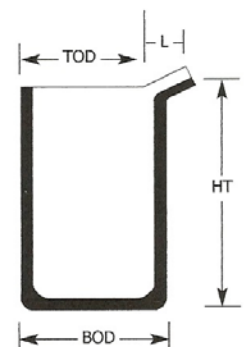
STRAIGHT SHAPE SILICON CARBIDE CRUCIBLES FOR INDUCTION FURNACES

PATTERN	PART DESCRIPTION	HT mm	OUTSIDE DIAMETER		BRIMFUL CAPACITY WATER Ltrs	APPROXIMATE ALUMINIUM CAPACITY Kgs
			TOD mm	BOD mm		
EC70	CY0450H0670&	670	450	450	60.2	452
EC71	CY0450H0700&	700	450	450	63.5	477
EC75	CY0450H0800&	800	450	450	74.8	562
EC323	CY0165H0318&	318	165	165	4.3	25
EC1601	CY0222H0470&	470	222	222	10	60
EC329	CY0330H0530&	530	330	330	25	148
EC330	CY0330H0635&	635	330	330	31	183
EC444	CY0254H0475&	475	254	254	15	90
EC552	CY0295H0450&	450	295	295	20	114
EC552HW	CY0295H0450&-HW25	450	295	295	19	113
EC570	CY0570H1000&	1000	570	570	168	980
EC800	CY0800H1100&	1100	800	800	376	2199



STRAIGHT SHAPE SILICON CARBIDE CRUCIBLES WITH SPOUT

PATTERN	PART DESCRIPTION	HT mm	OUTSIDE DIAMETER		BRIMFUL CAPACITY WATER Ltrs	APPROXIMATE ALUMINIUM CAPACITY Kgs
			TOD mm	BOD mm		
TPC75	CY0456H0800T-LA2H146	800	450	450	73	549
TEC1603 R	CY0222H0470T-LA2M276	470	222	222	10	75
TEC-800R	CY0800H1100T-LA2O265	1100	800	800	372	2150



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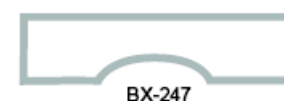
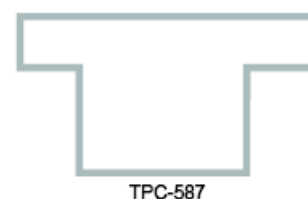
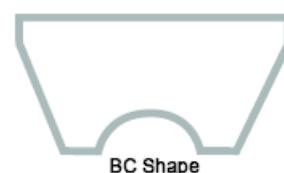
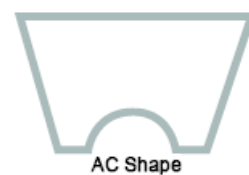
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ACCESSORIES FOR USE WITH SIICON CARBIDE CRUCIBLES STANDS

PATTERN	TOD mm	BOD mm	HT mm	SUITABLE FOR PATTERNS			Spigot
				AC	BC	TPC	
XRC 122/1	285	230	125	160,175,180 200,205,225 230,250,255, 330,350,365		175,400	
XRC 122/1(S)	285	230	125			843,5	Y
XRC 132/1	310	250	125	300,355,375 400,405,410	166,167,168 171	287,355	
XRC 132/1 (s)	310	250	125			740,355,843 10,12,982,8	Y
XRC 132/3 (s)	310	250	300			740,355,843 10,12,982,983	Y
XRC 132/4 (s)	310	250	175			740,843, 10,12,982,8	Y
XRC 132/5 (s)	310	275	75			740,843 10,12,982,8	Y
XRC 202/1	360	250	125	500,510,610 555	202,302,401 402	387,412	
XRC 202/1 (s)	360	250	125			412,89	Y
XRC 202/2	360	250	175	500,510,610 555	202,302,401 402	387,412,89	
XRC 202/2(S)	360	250	175			387,412,89	Y
XRC 202/3	360	250	225	500,510,610 555	202,302,401 402	387,412,	
XRC 202/3(S)	360	250	225			387,412,89	Y
XRC 202/4	360	250	150	500,510,610 555	202,302,401 402	387,412,	
XRC 247	425	425	115		247,263,700		
XRC 247/50	425	425	50		247,263,700		
XRC 587	425	300	215			588,651	
XRC 360/50	360	360	50				
XRC 310/50	310	310	50				
XRC804	350	350	120		847		
XRC2471	425	425	100		247,263, 264		
XRC2474	425	425	150		247,263, 264		
XRC2472	425	425	200		247,263, 264		



* Stands of different heights can also be made available on order
* Stands with spigot also available for TPC models having recess.

MUFFLE RINGS

MODEL	TOP DIAMETER IN mm	BTM DIAMETER IN mm	HEIGHT IN mm	SUITABLE FOR MODELS
XMC71	385	370	280	TPC-400,
XMC122/1	450	450	255	TPC10,TPC12,TPC8,TPC843
XMC143/1	616	616	205	TPC-387,TPC412
XMC159/1	527	516	305	TPC287
XMC159/3	565	550	305	TPC89
XMC1600	850	850	240	TPC852,TPC1600,TPC1800



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

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ISOSTATIC PRESSING TECHNOLOGY (CIP) is used to produce high quality crucibles... “RED DIAMOND” SIGMA.

CIP – A HOST OF HIGH-TECH ADVANTAGES

HOMOGENEITY

In CIP, an equal amount of pressure is applied simultaneously in all directions on the ceramic batch encased in the elastomeric mould. Since behaviour of the ceramic powder is directly related to the number of directions from which the pressure is applied, this process makes an optimal level of homogeneity possible. This makes CIP ideal for the manufacture of metal pouring refractories.

SWIFT TRANSFER

High Resistance: In CIP, the ceramic powder is contained in a flexible mould which is immersed in a liquid kept at very high pressures. This helps to compact the ceramic powder uniformly in all directions. This high compactness allows a steady and fast pace of heat transfer and electrical resistance.

HIGH & UNIFORM DENSITY

Because of equal and high pressure, the ceramic powder can be compacted at a very high and uniform density throughout the required shape. Isostatic Pressing is the benchmark process in the world's most technologically advanced regions.

The range of special features offered by CIP are:

- > Homogenous High Density and Strength
- > High Thermal Conductivity
- > High Fuel Efficiency & Energy Saving
- > Virtually Zero Defects

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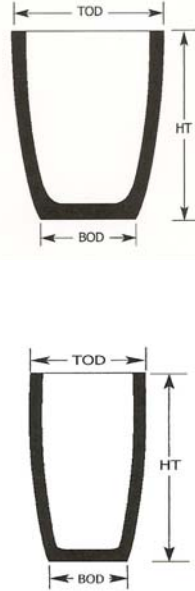
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RED DIAMOND "SIGMA" Al SHAPE (SMALL) (ISOSTATIC CRUCIBLES)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY Litres
Al 6/0	A&0025H0029&	29	25	19	0.004
Al 5/0	A&0032H0035&	35	32	25	0.009
Al 4/0	A&0041H0051&	51	41	27	0.022
Al 3/0	A&0048H0054&	54	48	32	0.036
Al 2/0	A&0052H0057&	57	52	36	0.041
Al 1/0	A&0060H0072&	72	60	42	0.069
Al 1/4	A&0065H0075&	75	65	45	0.092
Al 0.5	A&0074H0080&	80	74	50	0.160
Al 1	A&0092H0095&	95	92	65	0.280
Al 1.1	A&0079H0097&	97	79	55	0.177
Al 1.2	A&0080H0100&	100	80	54	0.187
Al 1.4	A&0094H0110&	110	94	54	0.255
Al 1.9	A&0104H0125&	125	104	65	0.405
Al 2	A&0110H0120&	120	110	75	0.550
Al 2.1	A&0102H0110&	110	102	65	0.366
Al 3	A&0120H0135&	135	120	80	0.740
Al 3.1	A&0110H0130&	130	110	70	0.534
Al 4	A&0140H0155&	155	140	100	1.260
Al 4.1	A&0115H0140&	140	115	75	0.655
Al 4.2	A&0115H0141&	141	115	75	0.596
Al 5	A&0140H0165&	165	140	100	1.370
Al 5.1	A&0125H0150&	150	125	85	0.859
Al 5.2	A&0127H0155&	155	127	87	0.937
Al 6	A&0140H0172&	175	140	100	1.480
Al 6.1	A&0106H0165&	165	106	90	0.986
Al 6.2	A&0130H0165&	165	130	90	1.163
Al 8	A&0155H0180&	180	155	105	1.780
Al 10	A&0175H0200&	200	175	120	2.368
Al 10.1	A&0162H0205&	205	162	115	1.866
Al 12	A&0175H0210&	210	175	120	2.526
Al 14	A&0175H0225&	225	175	120	2.764
Al 15	A&0200H0200&	200	200	120	3.340
Al 16	A&0200H0230&	230	200	120	3.850
Al 18	A&0215H0250&	250	215	130	4.360
Al 20	A&0230H0265&	265	230	140	5.430
Al 25	A&0230H0280&	280	255	165	7.540
Al 30	A&0255H0280&	280	255	165	7.540
Al 32	A&0245H0340&	340	245	175	7.750
Al 32(S)	A&0245H0325&	325	245	175	7.460
Al 34	A&0245H0360&	360	245	175	8.304
Al 35	A&0268H0300&	300	268	185	8.630
Al 40	A&0268H0315&	315	268	185	9.190
Al 41	A&0268H0330&	330	268	185	9.481
Al 50	A&0305H0340&	330	305	195	10.560
Al 55	A&0305H0350&	350	305	195	11.560
Al 60	A&0307H0375&	375	307	195	12.080
Al 70	A&0325H0385&	385	325	210	14.540
Al 80	A&0325H0410&	410	325	210	15.780



RED DIAMOND "SIGMA" Al SHAPE (BIG) (ISOSTATIC CRUCIBLES)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY Litres
Al 85	A&0325H0430&	430	325	210	16.54
Al 86	A&0330H0410&	410	330	227	18.06
Al 90	A&0350H0405&	404	350	240	20.64
Al 100	A&0350H0410&	410	350	240	20.96
Al 110	A&0350H0420&	420	350	240	21.75
Al 120	A&0350H0435&	435	350	240	22.97
Al 135	A&0380H0450&	450	380	240	25.23
Al 150	A&0380H0475&	475	380	240	26.63
Al 151	A&0380H0485&	485	380	240	27.19
Al 180	A&0380H0500&	500	380	240	28.46
Al 185	A&0430H0500&	500	430	260	33.84
Al 195	A&0410H0500&	500	410	295	35.58
Al 200	A&0430H0540&	540	430	260	37.63
Al 225	A&0430H0565&	565	430	260	40.02
Al 250	A&0430H0590&	590	430	260	42.41
Al 255	A&0440H0545&	545	440	295	48.36
Al 260	A&0430H0610&	610	430	260	44.33
Al 280	A&0430H0635&	635	430	260	47.60
Al 300	A&0475H0585&	585	475	320	55.00
Al 305	A&0440H0540&	540	440	315	44.55
Al 325	A&0475H0600&	600	475	320	56.65
Al 326	A&0490H0600&	600	490	280	59.19
Al 350	A&0475H0640&	640	475	320	61.65
Al 351	A&0490H0640&	640	490	280	64.26
Al 351.2	A&0490H0670&	670	490	280	68.5
Al 354	A&0535H0600&	600	535	315	69.40
Al 355	A&0560H0600&	600	560	360	75.83
Al 400	A&0564H0660&	660	564	360	86.63
Al 401	A&0540H0660&	660	540	315	78.40
Al 402	A&0515H0620&	620	515	360	72.82
Al 405	A&0540H0680&	680	540	315	82.56
Al 406	A&0515H0680&	680	515	360	82.30
Al 450	A&0564H0705&	705	564	360	95.39
Al 500	A&0564H0720&	720	564	360	97.42
Al 501	A&0545H0720&	720	545	315	89.06
Al 502	A&0515H0660&	660	515	360	78.77
Al 510	A&0545H0740&	740	545	315	93.77
Al 525	A&0564H0740&	740	564	360	101.28
Al 550	A&0564H0760&	760	564	360	104.62
Al 551	A&0545H0760&	760	545	315	96.36
Al 552	A&0520H0720&	720	520	360	88.08
Al 600	A&0564H0810&	810	564	360	113.79
Al 601	A&0548H0810&	810	548	315	104.79
Al 602	A&0520H0810&	810	520	360	101.61

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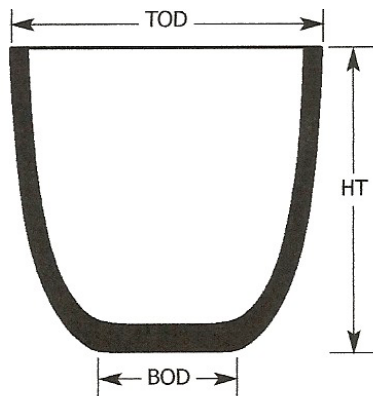


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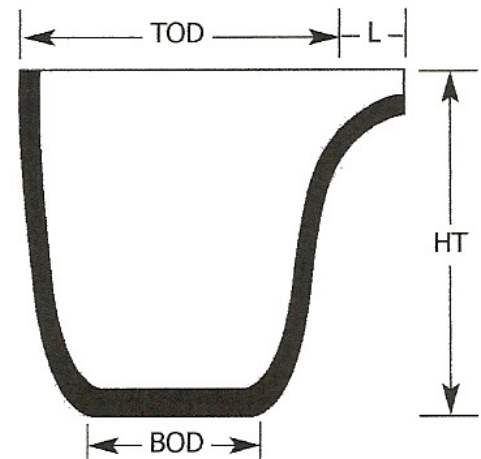
RED DIAMOND "SIGMA" BUI SHAPE



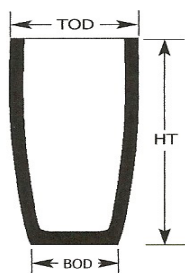
TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY Litres
BUI 100	BU0523H0402&	402	523	305	44.21
BUI 125	BU0524H0451&	451	524	305	52.14
BUI 150	BU0525H0492&	492	525	305	58.82
BUI 175	BU0526H0551&	551	526	305	69.71
BUI 200	BU0527H0600&	600	527	305	76.84
BUI 212	BU0590H0550&	550	590	360	92.40
BUI 225	BU0590H0630&	630	590	360	109.50
BUI 250	BU0590H0660&	660	590	360	115.90
BUI 300	BU0590H0700&	700	590	360	124.40
BUI 350	BU0590H0800&	800	590	360	145.90

RED DIAMOND "SIGMA" TPI SHAPE (WITH SPOUT)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY LITERS
TPI 150	A&0485H0380T-LA1300	485	380	240	27.61
TPI 400	P&0360H0613T-LA1300	613	360	250	32.02
TPI 600	P&0360H0807T-LA1300	807	360	250	44.03
TPI 260	A&0380H0485T-LA1300	485	380	260	44.33
TPI 325	A&0430H0672T-LA1300	672	430	260	50.26
TPI 740	P&0440H0555T-LA1300	555	440	295	49.06
TPI 983	P&0440H0880T-LA1300	880	440	295	79.23
TPI 982	P&0440H0820T-LA1300	820	440	295	72.76
TPI 287	BU0527H0600T-LA1300	600	527	305	76.48
TPI 12	P&0440H0940T-LA1300	940	440	295	85.47
TPI 87	A&0520H0740T-LA1300	740	520	360	90.54
TPI 88	A&0550H0810T-LA1300	810	550	315	104.79
TPI 89	A&0564H0810T-LA1300	810	564	360	113.61
TPI 387	BU0590H0630T-LA1300	630	590	360	109.50
TPI 412	BU0590H0800T-LA1300	800	590	360	145.90



RED DIAMOND "SIGMA" TPI SHAPE (WITHOUT SPOUT)



TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY Litres
TPI 4	P&0360H0613&	613	360	250	32.02
TPI 5	P&0360H0707&	707	360	250	38.02
TPI 6	P&0360H0807&	807	360	250	44.03
TPI 8	P&0440H0820&	820	440	290	72.46
TPI 9	P&0440H0880&	880	440	295	79.23
TPI 10	P&0440H0940&	940	440	295	85.47
TPI 904	P&0360H0914&	914	360	250	50.65
TPI 905	P&0360H0920&	920	360	250	51.03

Notes

- The dimensions shown are nominal and subject to normal manufacturing tolerances.
- Our crucibles are recommended for non-ferrous alloys except those containing more than 30% of Nickel, Chromium or Iron.

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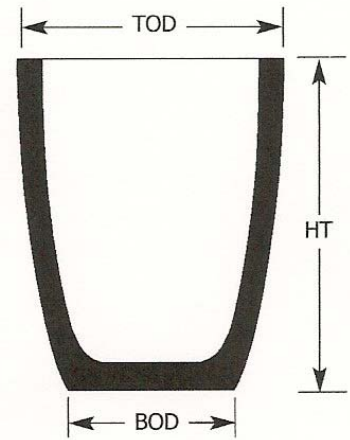
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SALAMANDER CLAY-GRAPHITE CRUCIBLES

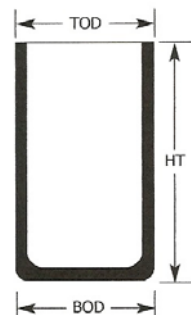
A SHAPE CRUCIBLES

PATTERN NO.	DESCRIPTION	HT mm	OUTSIDE DIAMETER		BRIMFUL CAPACITY Ltrs	BRASS CAPACITY Kgs
			TOD mm	BOD mm		
A5/0	A&0032H0035&	35	32	24	0.01	0.09
A3/0	A&0046H0052&	52	46	30	0.03	0.22
A1/0	A&0060H0067&	67	60	41	0.07	0.56
A0.5	A&0068H0078&	78	68	48	0.13	1
A1	A&0079H0097&-IL	97	79	55	0.16	1.5
A1.5	A&0090H0092&-IL	92	90	55	0.2	2.1
A2	A&0095H0109&-IL	109	95	61	0.33	2.5
A3	A&0105H0127&-IL	127	105	70	0.49	3.7
A4	A&0114H0141&-IL	141	114	76	0.75	5.6
A5	A&0124H0152&-IL	152	124	86	0.91	6.8
A6	A&0130H0165&-IL	165	130	95	1.2	9
A7	A&0140H0175&-IL	175	140	105	1.46	11.3
A8	A&0156H0184&-IL	184	156	108	1.67	12.5
A10	A&0160H0200&-IL	200	160	110	2	15.5
A12	A&0171H0210&-IL	210	171	121	2.4	19.5
A16	A&0184H0232&-IL	232	184	130	3.07	23
A20	A&0197H0260&-IL	260	197	145	4	30
A25	A&0210H0280&-IL	280	210	155	4.8	36
A30	A&0232H0290&-IL	290	232	160	5.72	42.88
A40	A&0232H0318&-IL	318	232	160	6.67	50
A50	A&0248H0324&-IL	324	248	180	8	60
A60	A&0276H0362&-IL	362	276	190	10.27	77
A70	A&0292H0315&-IL	315	292	200	12.4	93
A80	A&0300H0397&-IL	397	300	210	14.01	105
A100	A&0324H0400&-IL	400	324	230	15.97	119.73
A120	A&0333H0435&-IL	435	333	240	18.36	137.64
A150	A&0362H0452&-IL	452	362	250	22.36	167.63
A200	A&0400H0491&-IL	491	400	285	31.88	239



STRAIGHT SHAPE CLAY-GRAPHITE CRUCIBLES - For Induction Furnaces

PATTERN	DESCRIPTION	HT mm	OUTSIDE DIAMETER mm	BRIMFUL CAPACITY Litres	BRASS CAPACITY Kgs
EA-323	CY0180H0310&	310	175	4.46	33.5
E323	CY0165H0318&	318	165	4.46	33.5



Notes

- The dimensions shown are nominal and subject to normal manufacturing tolerances.
- Our crucibles are recommended for non-ferrous alloys except those containing more than 30% of Nickel, Chromium or Iron.
- Working capacity is calculated as 90% of the brimful when melting brass, specific gravity 8.35.

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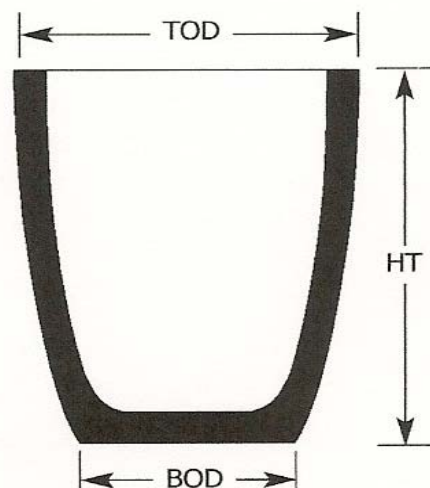
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RED DIAMOND "ALPHA" A SHAPE (CLAY GRAPHITE CRUCIBLES)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY 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 600	A&0546H0760&	760	546	338	101.63
A 800	A&0540H0800&	800	540	370	103.50
A 1000	A&0616H0822&	822	616	420	149.90
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

- The dimensions shown are nominal and subject to normal manufacturing tolerances.
- Our crucibles are recommended for non-ferrous alloys except those containing more than 30% of Nickel, Chromium or Iron.
- Working capacities are based on Brass Specific Gravity 8.35 and Aluminium Specific Gravity 2.7 and 90% of Brimful Capacity approx.

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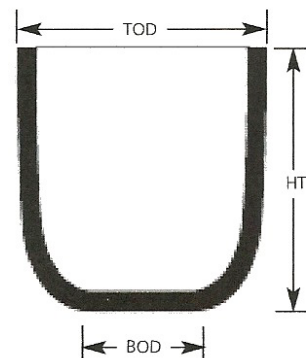
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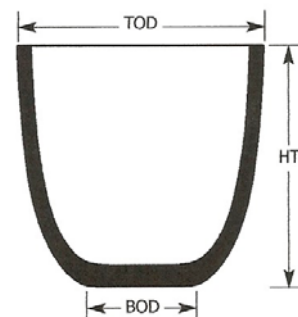
RED DIAMOND "ALPHA" B SHAPE (CLAY GRAPHITE CRUCIBLES)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY Litres
B 100	B&0529H0402&	402	529	254	46.75
B 125	B&0529H0451&	451	529	254	54.51
B 150	B&0529H0492&	492	529	254	61.00
B 200	B&0529H0600&	600	529	254	78.20
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 Litres
BU 100	BU0527H0402&	402	527	305	44.56
BU 125	BU0527H0451&	451	527	305	52.77
BU 150	BU0527H0492&	492	527	305	59.57
BU 175	BU0527H0551&	551	527	305	69.35
BU 200	BU0527H0600&	600	527	305	77.48
BU 211	BU0615H0505&	505	615	356	81.50
BU 212	BU0615H0550&	550	615	356	88.50
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 601	BU0850H0750&	750	850	420	252.33
BU 700	BU0775H1000&	1000	775	420	277.77
BU 749	BU0775H1100&	1100	775	420	341.39
BU 750	BU0950H0790&	790	950	500	319.13
BU 1000	BU0950H1050&	1050	950	500	466.71
BU 1300	BU0950H1150&	1150	950	500	523.47



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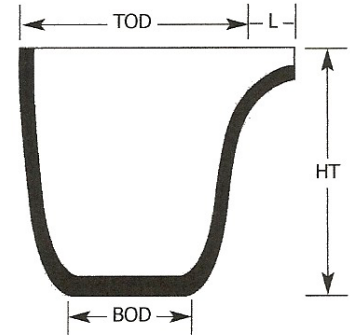
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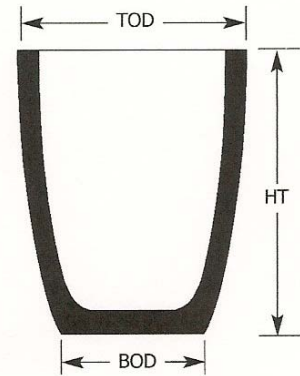
RED DIAMOND "ALPHA" TP SHAPE (WITH SPOUT) (CLAY GRAPHITE CRUCIBLES)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY Litres
TP 162	P&0300H0489T-LA1H200	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-LA1300	600	527	305	77.48
TP 12	P&0440H0940T-LA1300	940	440	295	82.80
TP 89	A&0546H0760T-LAI300	760	546	338	101.63
TP 387	BU0615H0630T-LAI300	630	615	356	115.24
TP 412	BU0615H0800T-LA1300	800	615	356	147.40
TP 587	BU0775H0889T-LAIB410	889	775	420	250.49
TP 987	BU0950H1050T-LAIA450	1050	950	500	466.71



RED DIAMOND "ALPHA" TP SHAPE (WITHOUT SPOUT) (CLAY GRAPHITE CRUCIBLES)

TYPE SIZE	PART DESCRIPTION	HT mm	TOD mm	BOD mm	BRIMFUL CAPACITY 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 15	P&0540H0975&	975	540	370	126.00
TP 830	P&0540H1160&	1160	540	370	155.00
TP 15P (Partition)	P&0540H0975&-LTZ	975	540	370	126.40



Notes

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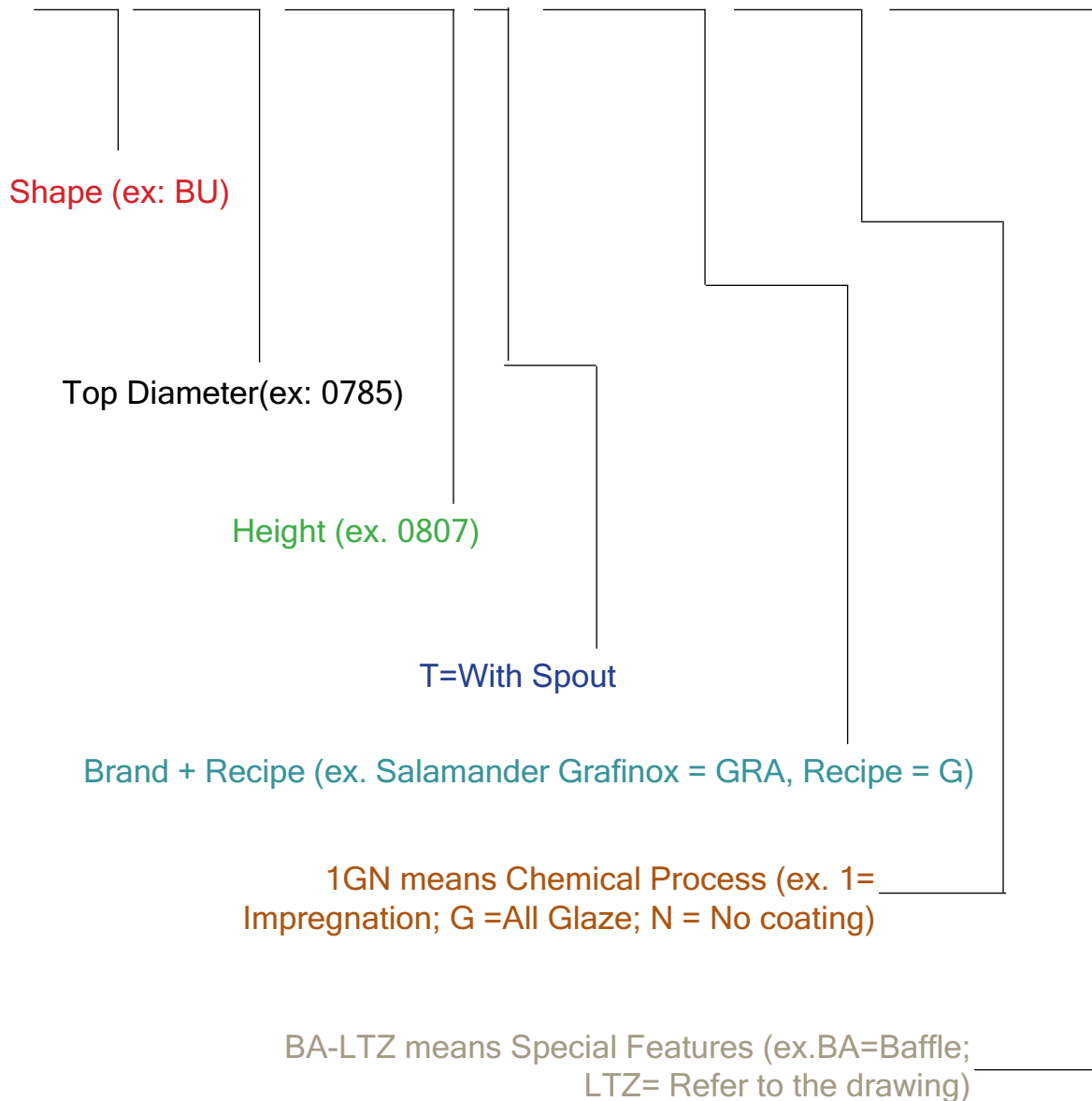
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Product Description Key

BU0785H0807T-GRAG-1GN-BA-LTZ



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GERMANY SPOUT LEGENDS

Code	Length	Old Code	Origin	Comments
LA2G	295	1C	INDIA - MCIL	LP400 UK (India)
LA5C	300	1C	GERMANY	SIC
LA2F	325	1D	INDIA - MCIL	LP1100UK (India)
		1D	GERMANY	see 1F now
LA5E	455	1E	GERMANY	
LA5F	480	1F	GERMANY	SIC
LA5A	480	1F	GERMANY	ULTR
LA5B	480	1F	GERMANY	Clay Graphite SIC pressed
LA5K	620	2K	GERMANY	
LA5M	205	1M	GERMANY	
LA5O	200	1O	GERMANY	
LA5P	340	1P	GERMANY	
LA5S	200	1S	GERMANY	
LA5T	200	1T	GERMANY	
LA5V	460	2T	GERMANY	
LA5W	345	1W	GERMANY	
LA5Y	500	4A	GERMANY	
LA5Z	300	4Z	GERMANY	
LA2M	150	SX121	INDIA - MCIL	
LA2N	290	SX150	INDIA - MCIL	
LA2O	305	SX275	INDIA - MCIL	
LA2S	146	SX702	INDIA - MCIL	

INDIA - DCCL SPOUT LEGENDS

Code	Length	Old Code	Origin	Comments
LA1A	450		INDIA - DCCL	
LA1B	410		INDIA - DCCL	
LA1C	340		INDIA - DCCL	
LA1D	300		INDIA - DCCL	
LA1E	280		INDIA - DCCL	
LA1F	270		INDIA - DCCL	
LA1G	240		INDIA - DCCL	
LA1H	200		INDIA - DCCL	

CHINA SPOUT LEGENDS

Code	Length	Old Code	Origin	Comments
LASP	340	1P	GERMANY	
LASS	200	1S	GERMANY	
LAST	200	1T	GERMANY	
LASK	620	1K	GERMANY	

SPECIAL FEATURES

Parameters	Code	Notes
Heavy Wall	HWXX	XX- wall thickness (in mm)
Thin Wall	DWXX	XX- wall thickness (in mm)
Spout (attached)	NLAXYLLL	N=Qty, XY - Lip type, LLL - Length
Spout (lose)	NLLXYLLL	N=Qty, XY - Lip type, LLL - Length
Inside Lip	JL	Small inside pouring groove
Without Lip	LW	Small external lip
Pyrometer Pocket (Thicker wall)	NPTXXXP	XXX - angle, P- position (L/R)
Pyrometer hole (Standard wall)	NPLXXXP	PL = Pressed in
Pyrometer Drilling	NPBXXXP	PB = Drilled in wall
Pyro Tube	NPP	N-number of PP's
Bottom Hole	BH	
Cut/Side Window/Incision	AE	
Recess	VT	
Bottom Pour	BP	Tea Pot version
Baffle	BA	
Heavy Base	HB	Reinforced bottom thickness
Side hole	SL	
Lugs	GX	
Ring welding	RW	
Refer to the drawing	LIZ	

INDIA - MCIL SPOUT LEGENDS

Code	Length	Old Code	Origin	Comments
LA2A	135	SU135	INDIA-MCIL	CG
LA2B	350	SU300	INDIA-MCIL	CG
LA2C	550	S U 3 0 1 (DBELPD)	INDIA-MCIL	CG
LA2D	64	SU323	INDIA-MCIL	CG
LA2E	105	SU324	INDIA-MCIL	CG
LA2F	325	LP1100	INDIA-MCIL	SIC
LA2G	295	LP400	INDIA-MCIL	SIC
LA2H	146	SC701	INDIA-MCIL	SIC
LA2I	146	SC702	INDIA-MCIL	SIC
LA2J	146	SC703	INDIA-MCIL	SIC
LA2K	285	SC704	INDIA-MCIL	SIC
LA2L	285	SC705	INDIA-MCIL	SIC
LA2M	150	SX121	INDIA-MCIL	SIC
LA2N	290	SX150	INDIA-MCIL	SIC
LA2O	305	SX275	INDIA-MCIL	SIC
LA2P	184	SX587	INDIA-MCIL	SIC
LA2Q	146	SX700	INDIA-MCIL	SIC
LA2R	146	SX701	INDIA-MCIL	SIC
LA2S	146	SX702	INDIA-MCIL	SIC
LA2T	1410	SU1410B	INDIA-MCIL	SIC
LA2U	1410	SU1410C	INDIA-MCIL	CG
LA2W	480	XU853	INDIA-MCIL	CG
LA2X	400	XU982	INDIA-MCIL	CG
LA2Y	261	SU724G	INDIA-MCIL	CG
LA2Z	450	XU984	INDIA-MCIL	CG

BRAZIL SPOUT LEGENDS

Code	Length	Old Code	Origin	Comments
LA3A	300	ALCOA	BRAZIL	
LA3B	210	MBR	BRAZIL	
LA3C	500	MBR500	BRAZIL	
LA3D	208	MCR	BRAZIL	
LA3E	330	M E T A L LEVE	BRAZIL	
LA3F	445	MMV	BRAZIL	
LA3G	210	MMV200	BRAZIL	
LA3H	205	PARALELO	BRAZIL	
LA3J	185	US	BRAZIL	

INDIA - MCIL BRAND & RECIPE LEGENDS

Acronyms	Labels	Recipes
AHR4	AMAND HB	R4
HRX5	Hercules C	X505
HRX7	Hercules C	X472
HRR1	Hercules C	R1
PLXF	Private Label	X485
PLAS	Private Label	X494
PLX7	Private Label	X472
PLX5	Private Label	X505
EXCL	Salamander EXCEL	X505
EXAS	Salamander EXCEL	X494
EXHM	Salamander EXCEL	X472
SAHM	Salamander Hi Melt	X472
OMR1	Salamander Omni Melt	R1
OMX5	Salamander Omni Melt	X505
SUX4	Salamander Super	X764
SUX0	Salamander Super	X760
SUX3	Salamander Super	X763
SCR1	Suprex	R1
SCR4	Suprex	R4

BRAZIL BRAND & RECIPE LEGENDS

Acronyms	Labels	Recipes
INDA	INDUX	3228
INDB	INDUX	F77
INDC	INDUX	GBA-5
SGFD	SLAMANDER GF	GF
INDE	INDUX	KC-3
GRAL	SALAMANDER GRAFINOX	M12
GRAG	SALAMANDER GRAFINOX	M13
SICH	SALAMANDER SIC	M64
INDI	INDUX	T1
SICJ	SALAMANDER SIC	M75

CHINA BRAND & RECIPE LEGENDS

Acronyms	Labels	Recipes
ALFL	Alustar FL	FL(Z2+Glaze10+LTP)
ALUS	Alustar	N55
ALZ2	Alustar Z2	Z2
SYZ2	Syncarb Z2	Z2
SYNC	Syncarb	N55
OMSY	Omnimelt	N55
OMZ2	Omnimelt	Z2

GERMANY BRAND & RECIPE LEGENDS

Acronyms	Labels	Recipes
ALUS	Alustar	N55
ALFL	Alustar FL	FL(Z2+Glaze10+LTP)
ALZ2	Alustar Z2	Z2
ALEO	Alustar	E50
CMHT	Carbomelt	HT
GRAF	Graft	G76
GRE1	Graft	E12
GRE5	Graft	E5
GRG8	Graft	G85
GRG9	Graft	G97
SICR	ISO/SIC - no brand label	R
OMHT	Omnimelt	Stabil HT
OMUN	Omnimelt	Stabil U
CB5Y	ISO AMAND CB	N55
CBGR	CG AMAND CB	G76
CBVO	SIC AMAND CB	VO
CBHT	SIC AMAND CB	HT
CBUN	SIC AMAND CB	U
STHT	Stabil	HT
STSR	Stabil	SR
STUN	Stabil	U
STUI	Stabil	U IND
STVO	Stabil	VO
SBER	Starrbide	HT-ERT
SBHT	Starrbide	HT
SBUN	Starrbide	U
SBVO	Starrbide	VO
ICAB	ISO Carbond	N55
SYNC	Syncarb	N55
SYFL	Syncarb	FL(Z2+Glaze10+LTP)
SYUL	Syncarb UL	X507
SYZ2	Syncarb Z2	Z2
SYSN	Syncarb	5N
SVEO	Syncarb	E50
SYNH	Syncarb	NHF
SYRL	Syncarb	RLM
ULTR	Ultramelt	X507

INDIA - DCCL BRAND & RECIPE LEGENDS

Acronyms	Labels	Recipes
ALPA	Alpha	R-MASS
HERC	Hercules	IS24
SGMA	Sigma	IS24
SGZ2	Sigma Z2	Z2
SGZB	Sigma ZBC	Z2

Code Impregnation

1	Vacuum Impregnation
2	Dip Impregnation
3	No Impregnation
0	Miscellaneous
Code	Glaze
E	EL Glaze
G	All Glaze
I	Inside Glaze
M	Miscellaneous
N	NO Glaze
O	Out side Glaze
Code	Coating
B	Bentonite
C	EPD Coating
D	PD Coating
I	Inside finish
K	Black finish
L	LTP Coating
M	Miscellaneous
N	No coating
O	No finish
P	Pro Coating

SHAPES

Code	Shape
A&	AC; AG; AS
B&	BC; BG; BS
BG	NOC; NOG
BN	NOS; TBNS; BNS
BU	NOC; BUG; BUS; BUC
BL	
BW	BC; BS
C&	CC; CG
CC	STR
CY	ZYLG; ZYLS; ZYLC; NOC
FU	FUC; FUG; FUS
LL	LLG
P&	PC; PG; PS; TPC; TPG
R&	RC; RG; RS
RT	RET S

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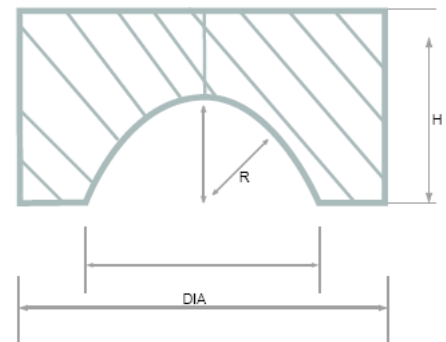
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RED DIAMOND "SIGMA" STAND (CYLINDER TYPE)

TYPE SIZE	HEIGHT mm	TOP DIAMETER mm	BOTTOM DIAMETER 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
STAND DI/1	125	420	420
STAND DI/2	150	420	420
STAND DI/3	200	420	420
STAND DI/4	250	420	420
STAND EI	230	500	500



RED DIAMOND "SIGMA" STOPPER ROD

TYPE/SIZE	HEIGHT mm	DIAMETER mm	HOLE DIAMETER mm	RADIUS
RDI-059	475	105	42	35
RDI-078	450	90	42	35
RDI-078.1	400	90	42	35
RDI-087	558	40	10	12
RDI-060H	475	105	40	30
RDI-060H.1	475	105	42	40
RDI-078.3	410	90	42	40

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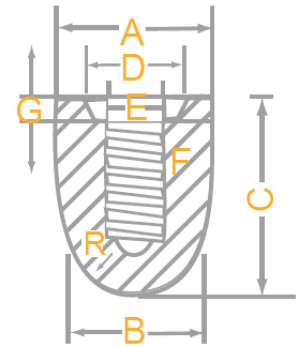
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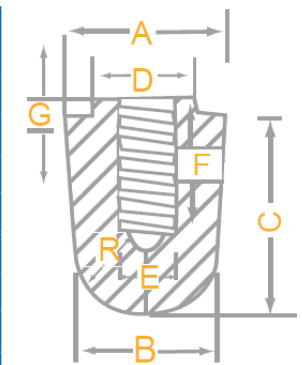
RED DIAMOND "ALPHA" STOPPER HEAD S TYPE

NOMINAL DIA	PATTERN NO	A	B	C	D		E		F	G	R	P
90	S.0	90	80	120	68	62	33.5 / 23.5		13	12	40	6
105	S.1	105	90	130	78	72	38.5 / 28.5		13	12	45	6
120	S.2	120	110	125	86	72	38.5 / 28.5		13	12	55	6
140	S.3	140	120	145	86	72	38.5 / 28.5		13	12	60	6
155	S.4/2	155	130	155	97	82	38.5 / 28.5		13	12	65	6
170	S.5	170	130	170	115	97	38.5 / 28.5		13	12	65	6



RED DIAMOND "ALPHA" STOPPER HEAD RS TYPE

NOMINAL DIA	PATTERN NO	A	B	C	D	E	F	G	R	P
90	RS.22	89	86	114	57 / 56	28 / 21	13	10	43	6
100	RS.23	100	88	130	64 / 62	38 / 28	13	10	44	6
115	RS.24	115	102	142	7 / 68	38 / 28	12	10	51	6
130	RS.26	130	110	130	72 / 70	37 / 28	12	10	55	6
160	RS.18	160	100	150	90 / 80	53 / 38	19	30	50	6
142	RS.25	142	118	157	81 / 57	40 / 30	13	12	59	6
130	CRS.26	130	50	137	81 / 74	40 / 30	12.7	13	32	6
130	CRS.22	130	130	165	80 / 70	30 / 30	--	10	65	Pin type Hole-12



RED DIAMOND "ALPHA" ROTATYPE RS STOPPER HEAD AND SCREW

PATTERN	A	B	C	D	E		F	G	R	P	
RS-395	90	84	100	64	63	58	50	12	10	44	4
RS-431	102	100	103	57	47.5	48	47	12	12	51	4
RS-448	92	88	102	57	47.5	42.5	41.5	12	10	51	4
RS-439	102	100	103	57	47.5	48	47	12	12	51	4
RS-415	114.5	111	108	57	47.5	55	45.5	12	24	55.5	4
RS-414	152.5	150	149	101.5	92	99.5	90	12	28	101.5	4
RS-441	114.5	111	108	57	47.5	55	45.5	12	12	55.5	4
RS-438	120	104	125	69	59.5	57.5	53	12	9.5	52	4
RS-443	92	86	102	57	47.5	54	45	12	9.5	43	4
RS-442	102	100	109.5	57	47.5	54	45	12	9.5	51	4
RS-449	114.5	111	108	57	47.5	55	45.5	12	24	55.5	4
RS-456	114.5	111	108	57	47.5	55	45	12	24	55.4	4

All dimensions are in mm

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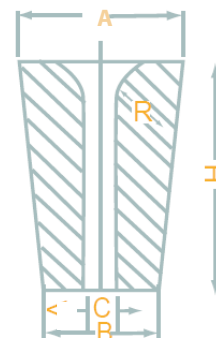
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RED DIAMOND "ALPHA" REFRACTORY NOZZLE

PATTERN NO.	TOP DIA A	BTM DIA B	HEIGHT H	RADIUS R	VARIOUS BORE DIA C
NZS-1	139	99	200	50	20,23,26,30,35,40,45,55
NZ-T	120	140	90	50	35
NZ-J	120	140	90	50	40
NZ-DRS4	120	41	116	45	25

**RED DIAMOND "ALPHA" SAGGERS**

TYPE/SIZE	OD	ID	H
RD-413	950	850	500
RD-417	540	460	405
RD-418	600	525	405

CLAY GRAPHITE FUNNEL

TYPE/SIZE	HEIGHT	TOP DIA.	BOTTOM DIA.	BRIMFUL CAPACITY IN LTR.
FUNNEL-82	605	300	90	11.105

CYLINDRICAL CRUCIBLE

TYPE/SIZE	HEIGHT	TOP DIA.	BOTTOM DIA.	BRIMFUL CAPACITY IN LTR.
CYI-86	451	387	387	33.56

CLAY GRAPHITE STOPPER

TYPE/SIZE	HEIGHT	DIAMETER	RADIUS
STOPPER-450	210	50	10

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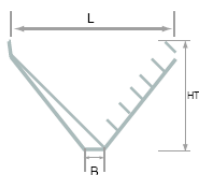
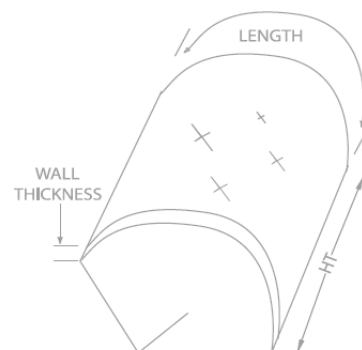
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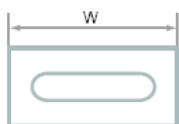
RED DIAMOND "ALPHA" G.F. CONVERTER SEGMENT

DRG NO	LENGTH mm	HEIGHT mm	WALL THICKNESS mm	APPR. METAL CAPACITY
SEGMENT 393	658	840	65	3T
SEGMENT 366	599	760	70	2T
SEGMENT 328	587	640	50	2T
SEGMENT 327	564	560	50	1.1.T
SEGMENT 420	850	760	70	3T
SEGMENT 421	658	840	65	3T
SEGMENT 422	720	830	50	2.2T
SEGMENT 428	841	760	70	2T
SEGMENT 432	901	1020	70	4T
SEGMENT 434	820	695	65	2.5T
SEGMENT 444	695	511	50	1.5T



RED DIAMOND "ALPHA" SPECIAL PRODUCT BRAZING CRUCIBLE

DRG NO	LENGTH	WIDTH	BOTTOM	HEIGHT	CAPACITY Litres
RD 207-A	760	320	190/210	310	13



LAUNDER

DRG NO	LENGTH	WIDTH	HEIGHT
LAUNDER	345	137	72

CLAY GRAPHITE NOZZLE

TYPE/SIZE	HEIGHT	TOP DIAMETER	BOTTOM DIAMETER	HOLE DIAMETER
NOZZLE-83	213	80	57	18

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TROUBLE FREE PYROMETRY

THE COST EFFECTIVE THERMOCOUPLE PROTECTION SYSTEM

The HotRod™ thermocouple sheath range offers a premium thermocouple protection system – providing excellent service life, good accuracy and response.

Supplied ready for use with a threaded 1/2" steel tube for rapid attachment to the furnace pyrometry system.

Includes removable plastic netting protection to minimise glaze damage in transit.

Benefits:

- > Reduced fuel consumption
- > Less down-time
- > Less cost
- > No tools needed for attachment



HOTROD™

Reference Numbers and Sizes

PATTERN	DIAMETER mm	HEIGHT mm	THREAD TYPE
VGI 50155	44	164	R1/2
VGI 50203	44	212	R1/2
VGI 50255	44	264	R1/2
VGI 50300	44	309	R1/2
VGI 50400	44	409	R1/2
VGI 50457	44	466	R1/2
VGI 50610	44	619	R1/2
VGI 50762	44	771	R1/2
VGI 50850	44	859	R1/2
VGI 50914	44	923	R1/2
VGI 501000	44	1009	R1/2
VGI 501067	44	1076	R1/2

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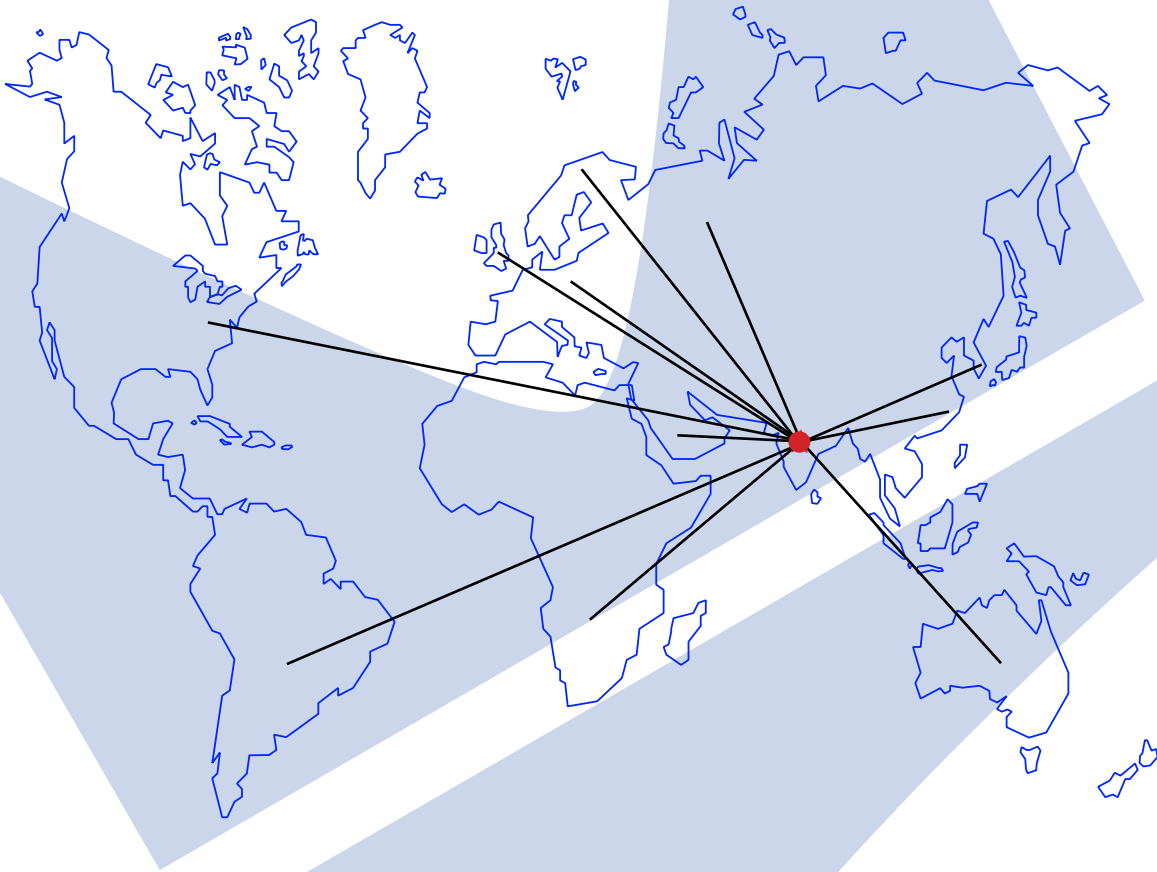


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