

**Vision Metal Aids (P) Ltd.**

[www.visionmetalaids.com](http://www.visionmetalaids.com)

# About Us

**Vision Metal Aids P Ltd** was incorporated in 1993. Since the founding, we have consistently endeavoured to develop and manufacture superior Foundry and Steel melting shop products that win confidence and satisfaction of our customers. Today we are among the top producer of these products in India and a favoured supplier to many customers in India as well as abroad. We started our manufacturing journey from all kind of Riser sleeves, hot tops, fluxes and gradually added products like coatings, Green sand additives (Coal additives) and Resin Coated Sand of premium grades because of the support and confidence of our prominent customers on us.

We are strictly following all safety norms and are continuously working in the interest of our society and environment by adopting latest technology and reducing wastage during production.

Since the founding of Vision Metal Aids Pvt. Ltd., we have consistently endeavored to manufacturing, wholesaling and exporting superior Exothermic Sleeves, Metakol, Foundry Coatings, Tundish Board, Ferro Molybdenum, etc that win confidence and satisfaction of our customers.

Our corporate philosophy is to supply foundry products that feed our customers with confidence and inspiration through development of technology. Drawing on our technological development capabilities, we have developed products to give our customer maximum benefits.

Our long term business objectives are to achieve world class quality level and strengthen our position as global producer of Ferro Molybdenum, Foundry Coatings, Tundish Board, etc. We export our product Pakistan, Africa, Sri Lanka, Dubai, etc. countries.

# Our Infrastructure

With the assistance of our well-furnished infrastructure unit, we have been able to deliver premium quality products to our precious clients. This facility is further divided into various departments like quality control department, procurement department, production department, research & development department and sales & marketing department. The works in these sub-units are managed by our skilled professionals.

# Sleeves

Vision has designed their exothermic sleeves in such a way that their oxidising additives generate exothermic reaction within the riser to hold the melt in Liquid state and provide feeding while solidification of castings.

We have well formulated our sleeves with organic/Inorganic binder and process in such a way that they will withstand at pressures generated during ramming of sand. its strength and toughness is very good.

We produce sleeves with all sizes and M.E.F ranges from 1.4 to 1.8++. It also improves the yield of the casting with respect to sand riser. Shapes such as cylindrical, Oval, Rectangular, Flexible boards, Rigid boards, sleeves with William core, tapered etc. Size range **1" dia to 46" dia.**

## We have categorised sleeves as :

- A. Exothermic Sleeves
- B. Insulating Sleeves
- C. Neck Down Sleeves
- D. Direct Pour Sleeves

## Advantages

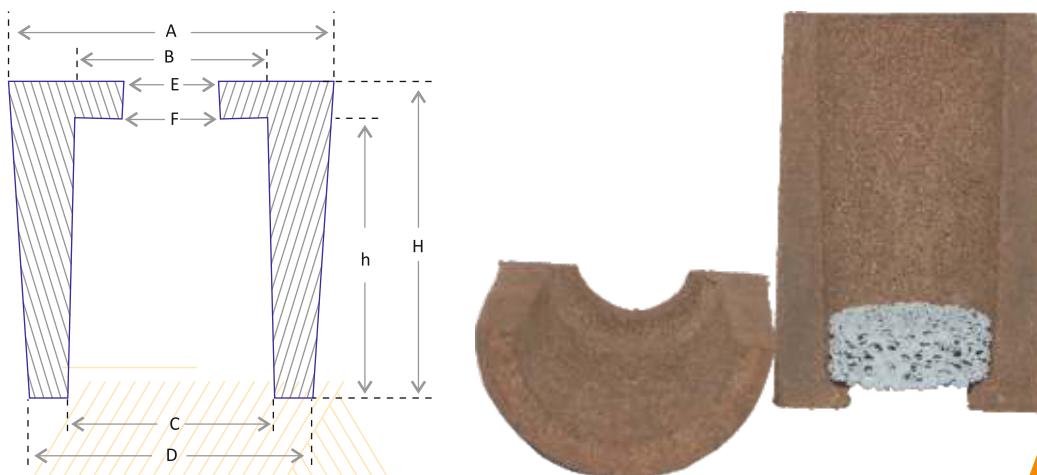
1. Improves Yield Of The Casting
2. Helps In Producing Shrinkage Free Castings
3. Customised/Tailor Made Production Of Sleeves Is Possible
4. Reduces The Contact Area On Top Of Casting Thereby Reducing Cutting/Fettling Cost
5. Intricate Castings Can Be Fed Easily



## METAMINEX DIRECT POURING SYSTEM S.G/ GREY IRON AND NON FERROUS CASTINGS

We are producing below sizes in direct pour system. These sleeves are used to improve yield of casting. Due to filtration of melt due to filter helps in preventing slag/inclusion in casting

Size	A	B	C	D	h	H	E	F
40x75	78	44	53	72	63	75	30	32
40x125	78	44	53	72	113	125	30	32
50x150	88	54	61	82	139	150	38	40
60X150	101	64	68	92	134	146	45	47
70X125	128	74	90	122	111	125	48	50
70X175	114	74	84	107.5	158	173	55	58
90X200	145	95	105	136	178	198	65	68



## METAMINEX NECK DOWN SLEEVES

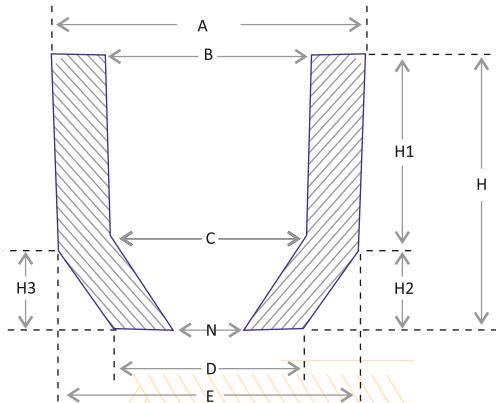
Our **METAMINEX** neck down round Sleeves are highly exothermic and insulating to use as feeder for all type of castings. We are manufacturing Neck down sleeves from dia 50 to 300 mm. We are manufacturing it in density from 0.6 gm/cc to 0.8gm/cc depending on the specific requirement of our customer.

We can use it in inserting as well as ram-up application. These kinds of sleeves has advantage to use as low contact area at casting surface. Easy to knock-off.

### Benefits:

- Low contact area
- Reduce fettling cost
- Yield improvement due to low volume

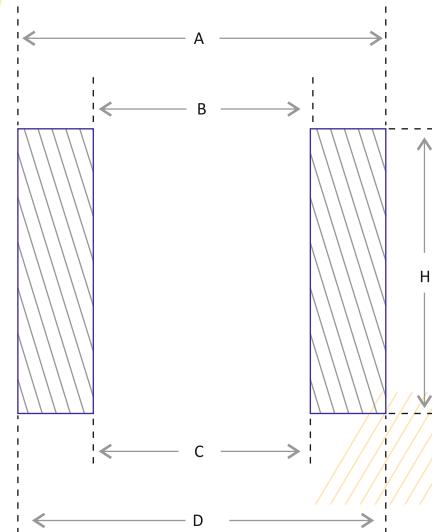
Size	A	B	C	N	D	E	H1	H2	H3	H
2.5X4	91	69	64	32	60	86	63	42	37	105
3X4	108	80	75	38	72	105	63	42	37	105
3X6	108	80	75	38	72	105	93	62	57	155
4X6	134	105	100	50	85	129	93	62	57	155
5X5	160	130	125	63	99	155	78	52	47	130
5X6	160	130	125	63	99	155	93	62	57	155
5X8	160	130	125	63	99	155	123	82	77	205
6X6	188	155	150	75	114	183	93	62	57	155
6X8	188	155	150	75	114	183	123	82	77	205
7X6	220	180	175	88	134	215	93	62	57	155
7X8	220	180	175	88	134	215	123	82	77	205
8X6	251	205	200	100	154	246	93	62	57	155
8X8	251	205	200	100	154	246	123	82	77	205
9X6	281	230	225	113	172	276	93	62	57	155
9X8	281	230	225	113	172	276	123	82	77	205
10X6	311	255	250	125	189	306	93	62	57	155
10X8	311	255	250	125	189	306	123	82	77	205
12X6	375	305	300	150	230	370	93	62	57	155
12X8	375	306	300	150	230	370	123	82	77	205



## METAMINEX INSULATING AND EXOTHERMIC OPEN SLEEVES

We are producing all sizes of open insulating and exothermic sleeves with high enriched properties for steel castings of all types. We are manufacturing sleeves from dia 25mm to 1100 mm .we do recommend to use our exothermic powder metamixo 200 to get better efficiency specially for bigger sizes. Sleeves are manufactured in various shapes such as cylindrical, oval, rigid boards and flexible boards. We even customize sleeves as per customer requirements.

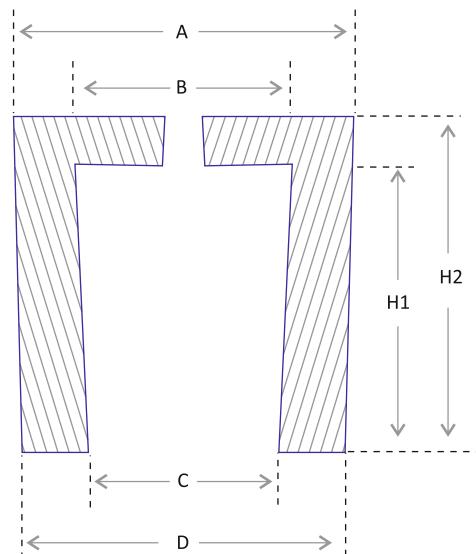
Size	A	B	C	D	H
1x3	50	25	28	47	75
1.5x3	65	38	40	62	75
1.5x4	65	38	40	62	100
1.5x5	65	38	40	62	125
2x3	78	51	53	75	75
2x4	78	51	53	75	100
2x5	78	51	53	75	125
2x6	78	51	53	75	150
2.5x3	94	65	67	91	75
2.5x4	94	65	67	91	100
2.5x5	94	65	67	91	125
3x3	108	77	79	105	75
3x4	108	77	79	105	100
3x5	106	80	76	102	125
3x6	106	80	76	102	150
3x8	106	80	76	102	200
3.5x6	120	94	89	115	100
3.5x8	120	94	89	115	150
4x4	134	106	102	130	200
4x5	134	106	192	130	100
4x8	134	106	102	130	150
4.5x6	146	118	114	142	200
4.5x8	146	118	114	142	150
5x6	163	131	127	159	200
5x8	163	131	127	159	150
6x6	190	156	152	186	200
7x6	222	182	176	218	150
7x8	222	182	178	218	200
8x6	247	207	20	243	150
8x8	247	207	203	243	200
upto 42 inches					



## METAMINEX INSULATING AND EXOTHERMIC BLIND SLEEVES

We are producing all sizes of blind insulating and exothermic sleeves with high enriched properties for steel/S.G./Greyiron castings of all types. We are manufacturing sleeves from dia 25mm to 225 mm.

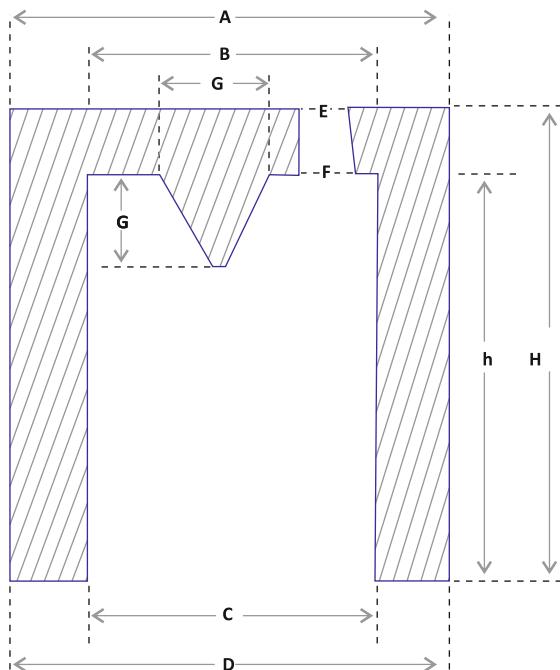
Size	A	B	C	D	H1	H2
1x3	52	29	32	49	76	84
1.5x3	65	38	40	62	76	84
2x3	78	51	53	75	76	86
2.5x6	88	64	68	84	150	160
3x4	102	76	80	106	100	114
3x8	102	76	80	106	200	264
3.5x6	120	89	94	125	150	164
3.5x8	120	89	94	125	200	214
4x6	130	102	106	134	150	164
4x8	130	102	106	134	200	264
4.5x6	142	114	118	146	150	166
4.5x8	142	114	118	146	200	216
5x6	159	127	131	163	150	166
6x6	186	152	156	190	150	168
6x8	186	152	156	190	200	218



## METAMINEX INSULATING AND EXOTHERMIC WILLIAMS WEDGE BLIND SLEEVES

We are producing all sizes given below for this series. Its william wedge increases the feeding efficiency. william wedge helps in yield improvement by increase the effective modulus of sleeve.

Size	A	B	C	D	G	E	F	h	H
4X7	56.6	35.5	41.5	62.5	14	5	7	62	71.5
5X11	68.5	47	52	73.5	18	8	10	100	110
6X9	75	52.5	57.5	80	18	8	10	78.5	91
7X10	89.5	65	69.5	94	20	10	12	87	99
8X11	96.5	72	79	104	22	12	14	96.5	109
8X17	96.5	72	79	104	24	12	14	150	165
9X17	107	81	89	115	26	16	18	150	165
10X17	121.5	91	97	127.5	28	16	18	150	165
12X17	142	110	116	148	28	16	18	150	165
15X17	182	139	146	189	30	20	22	150	165



## METAMINEX LOW VOLUME & HIGH MEF RISER SLEEVES (HIGH DENSITY)

High Density Sleeves greatly improve the gradual process yield on the premise of meeting the requirements of casting feeding. At the same time, because the contact area between the riser sleeve and the casting is reduced, the cleaning cost of the casting is reduced. It has low density, good strength, and toughness and is suitable for various grades of cast iron and steel castings and various molding processes.

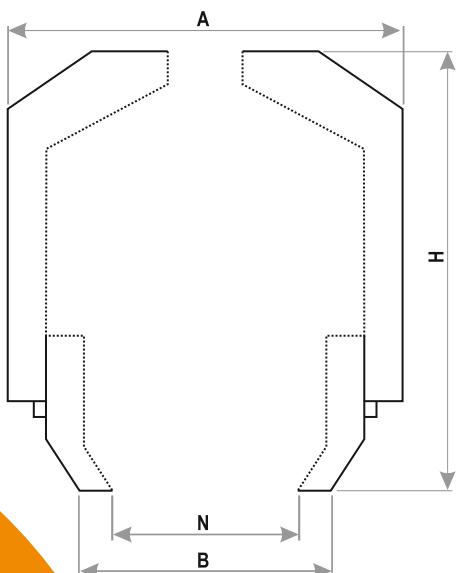
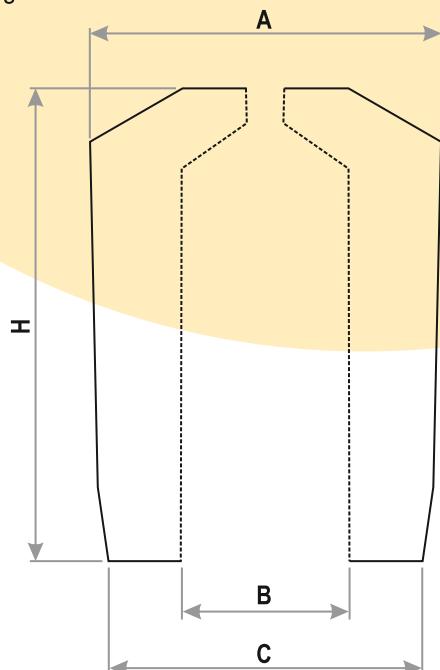
High Density Sleeves is a high-efficiency exothermic riser sleeve. It is critical for increasing the productivity, quality and profitability of casting.

### Benefits

- Less contact area makes it suitable for a fixed position for application on casting
- Less fettling required
- High exothermicity and insulating property support in producing sound casting

Size	A	B	C	H
VM8	49	17	33	60
VM16	53.50	21.50	37.50	65
VM40	71	23	43	130
VM100	73	41	61	108
VM140	89.50	47	75	120
VM170	79	46	82	130
VM300	110	66	100	136.50

Size	A	N	B	H
VM40/15	55.50	15	30	102.50
VM120/25	77	25	40	140
VM300/25	110	25	45	186.50



# Coatings

We are manufacturing all kind of refractory coatings. We have designed specific coatings for different kind of melts like steel, Cast Iron, S G Iron and Non Ferrous. Our coatings are formulated in such a way so that it gives best casting surface finish reduced rework and rejection due to sand related defects. We also produce special kind of refractory coatings suitable for Cyl blocks and head manufacturing.

## ADVANTAGES

1. Gives excellent surface finish to the casting
2. Reduce rework and fettling time
3. Reduce all kind of sand related defects like metal penetration, sand peel off & Scab etc.
4. Alcohol base coatings is formulated in keeping view of fast drying and good flamability
5. Gives extremely good refractoriness to mould
6. Our coatings can be applied by brush/Spray/Dipping and Flow coating.

Our grades of coatings are as under:

## Varitek

Varitek water based coatings are available in all kind of refractory minerals like Zircon, Alumina Silicate, Graphite & mixed. It is best coating in their class. Its enhanced refractoriness, short matting time and application properties gives an edge to the coating and which results into a defect free casting. We have developed a series of Varitek coatings depending upon several variables like liquid metal type, casting geometry and type of moulding.

Sr No	Product Name	State	Appearance	Base Refractory	Mode of Application				Benefits & Area of usage
					Brush	Dipping	Spray	Flow coat	
1	VARITEK AN	liquid	Brownish/Red	Alumina silicate	✓	✓			Suitable for cold box process core making . All kind of automobile castings
2	VARITEK MRB	Bliquid	BLACK	ZIRCON/GRAPHITE		✓			Suitable for cold box process core making . All kind of automobile castings
3	VARITEK CB	liquid	Brownish/Red	ALUMINASILICATE/MIXED REF	✓	✓			Suitable for cold box process core making. All kind of automobile castings specially for Cylinder block Heads and heavy section casting
4	VARITEK NF	liquid	RED	Red			✓		formulated for Green sand moulding system to get best surface finish.
5	VARITEK 100	liquid	Off-white	Zircon	✓				Suitable for Heavy Steel casting.
6	VARITEK 1000-T	liquid	Black	ZIROCN/Graphite	✓	✓	✓		For LFC casting process
7	VARITEK GP 100	POWDER	BLACK	GRAPHITE	✓				Specially suitable for ingot mould making. can be sued for all kind of core /moulding
8	VARITEK 60	POWDER	BLACK	GRAPHITE	✓				Suitable for making CI moulds
9	VARITEK GPW	Paste	BLACK	GRAPHITE	✓				Suitable for making CI moulds
10	VARITEK LFC	Liquid	Black to Grey	MIXED REFRACTORY	✓	✓		✓	Suitable for LFC process of casting making
11.	VARITEK 108	Liquid	Off White	Zircon	✓				High Zircon



# Alcoteck

In this series we produce all thinner base coatings. We have coatings for heavy steel castings to grey iron casting. We are supplying to all type of casting manufacturer. We also designed tailor made coating depending upon the specific requirement of our customers with help of our technical experts & wide R&D facilities.



Sr No	Product Name	State	Appearance	Base Refractory	Mode of Application				Benefits & Area of usage
					Brush	Dipping	Spray	Flow coat	
1	ALCOTEK G 45	liquid	Black to Grey	Graphite	✓	✓			Suitable to use in all kind of core and mould making. S.G. and Grey Iron castings
2	ALCOTEK MS 90	liquid	Yellowish	Magnesite	✓	✓		✓	Magnesite steel castings production. Suitable for NO bake and Sodium silicate system
3	ALCOTEK ZP100	Powder	Off-white	Zircon	✓	✓	✓		Heavy section castings of all kind of steel and Iron casting production of all kind of moulding system
4	ALCOTEK MCP	liquid	Off-white	Zircon mixed			✓		formulated for Green sand moulding system to get best surface finish.
5	ALCOTEK MP 81	Powder	Yellowish	Magnesite	✓	✓	✓		Magnesite steel castings production. Suitable for NO bake and Sodium silicate system
6	ALCOTEK GP72	Powder	Black	Graphite	✓	✓	✓		Powder form Graphite coating for SG/Grey iron castings. Easy to add solvent as per requirement of customer
7	ALCOTEK 200	liquid	Green	Zircon	✓	✓			Hlgh refractory Zircon coating for Steel Casting.
8	ALCOTEK 207	liquid	Green	Zircon	✓	✓			Hlgh refractory Zircon coating for Steel Casting.
9	ALCOTEK 108	liquid	Off-white	Zircon	✓				Hlgh refractory Zircon coating for Steel Casting.
10	ALCOTEK 100	liquid	Off-white	Zircon	✓				Hlgh refractory Zircon coating for Steel Casting.
11	ALCOTEK ZPS	Paste	Off-white	Zircon	✓	✓	✓		Available in paste form for steel castings and heavy section S G iron casting
12	ALCOTEK 306	liquid	Green	Zircon	✓				Hlgh refractory Zircon coating for Steel Casting.
13	ALCOTEK GZ45	liquid	Black to Grey	Mixed	✓	✓	✓		mixed refractory coating for Moulding / core making of all kind of sand bonded system.
14	ALCOTEK-GPS	Paste	Black	Graphite	✓	✓	✓		mixed refractory coating for Moulding / core making of all kind of sand bonded system.

orous Carbon for green sand moulding which prevent phenomena inside mould like reducing vol during heating, helps to fill voids in sand castings with reduced sand related defects. We 00 MT per annum.



1. Improves sand peel of the castings at shake out which reduces wastage of system sand.
2. Gives better surface finish to the castings.
3. It reduces shot blasting time and consumption of shots
4. Improves flow ability of sand which gives better compaction of sand per mould.
5. Reduces fettling time of the castings.
6. Our Metakol SPL ++ swells during burning and fill the sand grain voids which results in reduction of sand expansion and it helps sand related defects like cab and mould dilation.
7. Metakol helps in producing smooth and clean surface of the castings.

We are manufacturing several grades of METAKOL keeping in view of its specific requirement for different types of moulding lines, liquid metals and castings shape and size.

Product	Volatile Matter	Ash Content	Fixed Carbon
METAKOL-LA	50 + 3%	6% max	By difference
METAKOL-N	55 + 5%	6% max	By difference
METAKOL-SPL	45 + 5%	7% max	By difference
METAKOL-SPL++	35 + 5%	7% max	By difference
METAKOL 75	80 + 5%	3% max	By difference

\* we do produce several different grades other than specified in table as per the customer requirement.

# Resin Coated Sand

We Vision Metal Aids produce resin coated in our Dausa Jaipur plant. We manufacture Resin Coated Sand of many grades depending on the castings specification for the preparation of cores and moulds. Our resin coated sands are specially formulated to achieve low gas content at a specific hot tensile strength and odor during production of cores and moulds in ferrous and non-ferrous metal casting. We are using high grade silica sand to produce the Resin coated sand. Our Resin Coated Sand is free flowing, smooth and moisture free. We have ultra-modern coating plant and good laboratory to achieve good quality.

Our resin coated sand has following characteristics

- Low peel back
- It develops uniform build-up with faster rate of cure
- Low gas content grades
- It is very dry, smooth, and free flowing with good resistance to moisture
- We are producing R.C.S. from 40 AFS to 80 AFS

## Advantages of Resin Coated Sand

Castings can be produced with very minimum machining allowances , close tolerance and along with excellent surface finish.

Reduced mould/core dilation.

Shell cores can be made hollow resulting in significantly lighter weight and lower cost cores.

Immediate use of cores in foundry

Fast production rate

Packing :- We are supplying product in LDPE bags in 50 kg standard packing



## Anti-piping compound and Exothermic Powder

Anti-Piping Compound and Exothermic Powder (METALUX and METAMEXO) is specially developed with high exothermic and insulating properties to increase feeder head efficiency by reducing heat Losses due to convection and radiation.

On coming in contact with molten metal in the feeder head, an exothermic reaction takes place and sufficient amount of heat is generated. This heat, off sets the chilling of molten metal due to heat Loss. The burnt residue swells and provides a strong insulation to prevent the radiation Losses. This process inhibits the formation of solid skin and also allows atmospheric pressure to initiate gravitational feeding of metal.

## Foundry Helping Raw Materials

We are also producing foundry helping material for Grey, S.G. iron industries, steel foundry /melting industries.

### List of products is as under

- Core fixing adhesive ( MetaFix)
- Core Sealing adhesive (MetaSeal Paste)
- Silica Laddle boards for Laddle lining
- Metachill - coating for instant chilling in casting. It is used at mould or core surface to get fast cooling at particular location
- Mexil 60 - It is a collapsible agent used to get better decoring in CO<sub>2</sub> mould and core making. It is available in both liquid and powder form.
- Metasil 123 - Inorganic binder for cores.
- Metastrip - To ease stripping of patterns.
- Slag 30 - Used to minimize heat loss and reduce slag inclusion defects.



# Steel Melting Products

- 1. Teeming Compound (Low/High Carbon/Free Carbon)
- 3. Anti-Piping Compound
- 5. Ladle Cover (Low/High Carbon, Neutral)
- 7. Ferro Alloys
- 9. Highly Exothermic Powder (HE Powder)
- 11. Aquaset 50
- 2. Iron Powder
- 4. Sealing Compound (Powder / Paste)
- 6. Synthetic Slag
- 8. Phospad
- 10. Castables (A/K/C)
- 12. Almix / Remix

## ADVANTAGES:

- 1. It keeps the metal in feeder head molten for Longer duration and hence allows gravitational feeding of metal.
- 2. Increase metal yield, therefore saves cost.
- 3. Very easy to use.

## Hot Tops

Hot Tops of various sizes and shapes are manufactured as per requirement for small, medium and Large Ingots.  
Shapes such as Square, Round, Super imposed, Semi inserted, Fully-inserted. Size range 2.5" up to 52"



## Tundish Boards

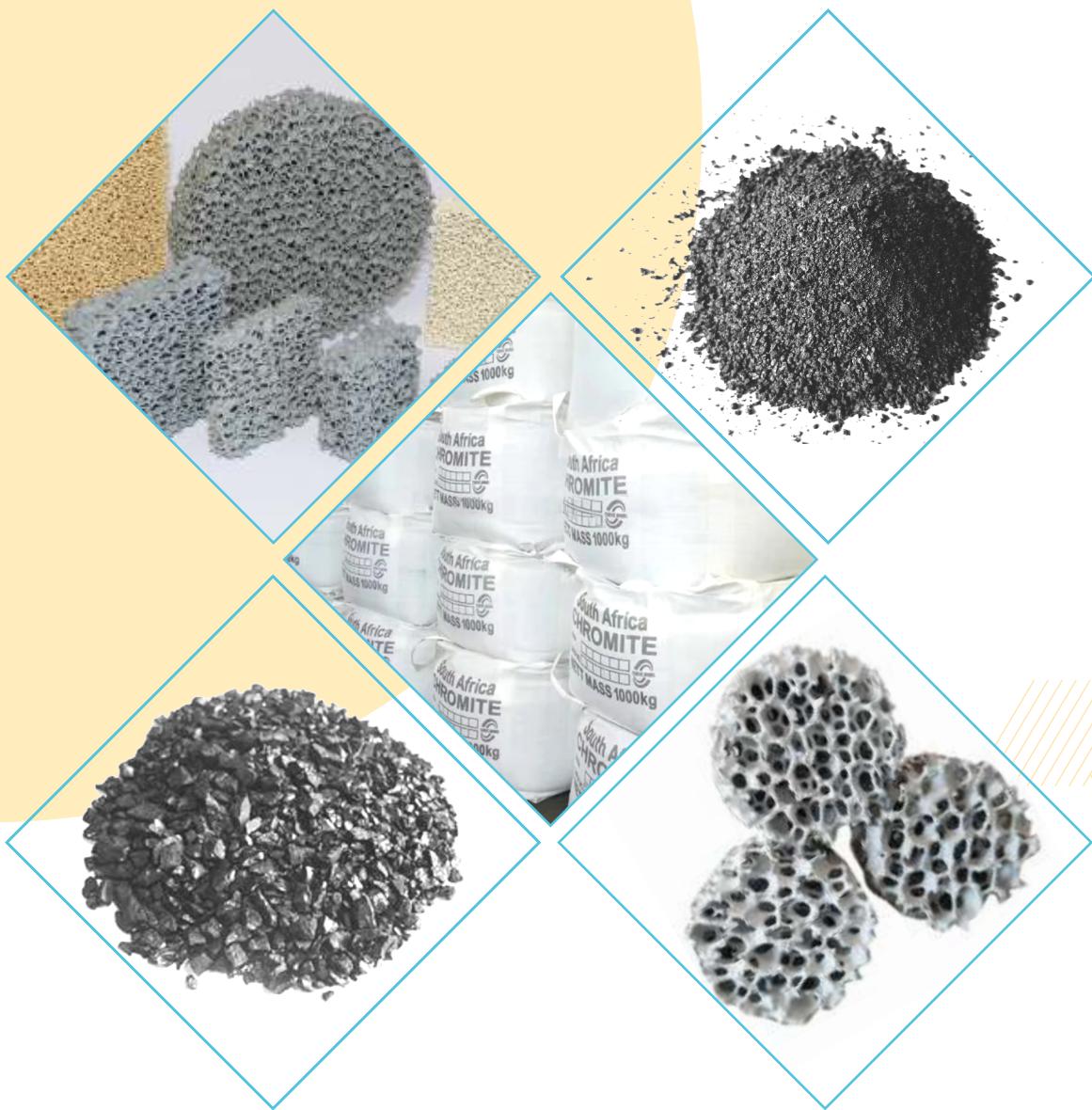
Tundish boards in various sizes and quality are manufactured for single or multiple strand system for Continues casting machines.

### Type of boards

- 1. Silica base
- 2. Magnesite base
- 3. Duplexform
- 4. Super silica

\*Size range: as per drawing of tundish





### We are also importing and dealing in following items

SIC Foam Filters  
Chromite Sand  
Ferro Alloys  
Carburizers  
GPC  
Neutral Ramming Mass  
White Heat A,K,C  
Castable and many more



**Reach Us:**

## **Vision Metal Aids (P) Ltd.**

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▲ Manufacturing Unit

● Warehouse

