

COMPANY DETAILS

Goenka Cast Engineering (I) Pvt. Ltd. An industrial group in Central India Manufacturing Cast Basalt and Ceramic Product in Various Ranges.

We at Goenka Group are dedicated to serve the core sector through its unique product range. Our abrasion protection products like Cast Basalt , High Alumina Ceramic lining , provide cost saving solution to our customer.

We are committed to provide value added products through the world class technology. We have brought the best AB -Resistant Products to enhance the Life of various products like, Pipe, Bends, Cyclones, Separaters, Conveyor, Chutes, Bunkers, etc. This immensely helps our customers in implementing cost saving and productivity improvement measures.

CAST BASALT

Cast Basalt Products



Cast Basalt is produced by melting of naturally available basalt rock and cast into tiles and cylinders. The casting so produced is then subjected to heat treatment cycles to produce re-crystallized basalt. The resultant product is called as fused Cast Basalt which has excellent wear resistant properties against sliding and friction induced abrasion and also inherits the inertness of parent materials.

COMPLETE SOLUTION TO WEAR PROTECTION

RANGE OF PRODUCTS :

- Cast Basalt Pipes :

- 50 NB To 500 NB
- Thk : 20 MM



- Cast Basalt Tiles :

Length (mm)	Width (mm)	Thickness (mm)	Type
200	200	30 / 40	Back Serrated
250	180	30 / 40	Back Serrated
200	200	30	Boltable
180	115	23	Back Serrated
180	115	18	Plain



TECHNICAL SPECIFICATIONS :

Sr. No.	Particulars	Specifications
1.	Item	Cast Basalt.
2.	Chemical Resistance	Absolutely acid/alkali resistant (except Hydrofluoric Acid) and Hence corrosion resistant.
3.	SPECIFICATIONS OF CAST BASALT:	
a.	Cast Basalt Thickness	20 ± 2 mm thk.
b.	Max. Operating Temperature	350 Deg. C
c.	Bulk Density	2.9 to 3.1 gm/cc
d.	Water Absorption	Max. 0.5 %
e.	Hardness to Mohs	8
f.	Compressive strength	500 - 550 Mpa
g.	Flexural Strength	40 - 50 Mpa
h.	Coefficient of expansion	6 - 8 X 10 ⁻⁶ 1/K
i.	Grout Thickness	Min. 15 - 20 mm

DESIGN ASPECTS :

- The bend radius should be minimum 3 times of nominal bore
- At discharge end of each bend, cast basalt lined straight pipe of length 5 to 12 times the nominal bore must be used.

- Cast Basalt Lined Bends :



- Standard Manufacturing Parameters :

NB	CB ID	MS OD	FLG OD	PCD	NO OF HOLES	FLG THK
50	53	139.7	245	205	8	18
80	78	168.3	275	232	8	18
100	103	193.7	290	255	8	18
125	128	193.7	325	280	8	18
150	153	219.1	335	300	8	18
175	178	248/273	380	335	8	18
200	203	273	395	355	8	18
225	228	298/323.9	425	380	12	18
250	253	323.9	445	405	12	18
300	287	355.6	480	435	12	18
300	303	373	500	455	12	18
350	336	406.4	540	490	12	18
350	356	426	560	520	12	18
400	386	457.2	590	540	12	18
400	406	476	620	560	12	18
450	436	508	640	585	16	18
500	489	571	685	635	16	18

- Cast Basalt Flume / Trench :

Radius (mm)	Angle (Deg)	Thickness (mm)
R - 100 to R - 300	120	30
R - 300 to R - 450	60	30/40
R - 450 to R - 700	45-60	30/40/50

- Applications :

Power Plants

- Ash Slurry Disposal Pipes & Bends
- Pneumatic Ash Conveying Pipes and Bends
- Ash Sump
- FA Trench Liners
- Coal Bunker
- Drag Chain Conveyor

Steel Plants

- Slag Granulation Pipes and Launderers
- Air Lift Pipes
- Coke House Bins
- Iron Ore House Bins
- Scale Flume Liners in HSM, Wire & Rod Mill, SMS, Castor area.

Cement Plants

- Coal conveying – C line and K line – pipes and bends.
- Ash and Cement conveying pipes & bends
- Separator and Cyclone Lining

CERAMICS :

Ceramics is produced from high Purity fine grain Aluminum oxide. The necessary forming of shapes is done in its green or pre sintered phase. The products are then sintered in a Klein at extremely high temperature. The Resulting Alumina Ceramics Shapes are Dense, durable and Wear Resistant Outlasting other wear Resistant products many times.

Alumina Ceramics Material Can Be Applied in coal fired Power plants, Steel Plants, Cement Plants, Etc. Alumina Ceramic pipes , Bends and Tiles are customized to the Client Requirements.



• Technical Specification :

Technical Specification		
Specification	Unit	Value
Compressive Strength	Kg/Sq. Cm	3500 min.
Alumina Content (Al ₂ O ₃)	%	85% min.
Density	gm/cc	3.3 to 3.6
Hardness	Moh's Scale	9
Wear Abrasion Resistance	mm (Material loss)	0.7 mm max.

• Range Of Products :

- Cylinders 50 NB to 125 NB Having Thk. of 10 MM, 15 MM , 20 MM
- Tile Thickness Varying From 6 MM to 30 MM
- The Pipe Fitting of 150 NB and Above are Lined with Tiles

• Applications :

Power Plants / Steel Plants / Cement Plants / Coal Washeries / Pulp & Paper Mills
Multi Port Outlet (MPO) , Mill Discharge Valve (MPV) , Classifier Ventury Outlet
Coal Conveying Pipes and Bends, Spiral Boxes Orifices , Nozzles, Cyclones & Separators, Many More...

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CIN No. U27200CT2006PTC020151