ANSSEN

Metallurgy Group Co., Ltd

SMS CONSUMBLES

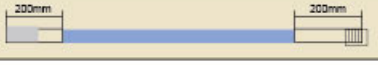
Service World Steel !

Oxygen Lance Pipe

Lance pipe is used for blowing in steelmaking, it is made of steel pipe with inside & outside surface calorized & ceramic coated,due to the user's requirement for low consumption, high purity during smelting process in EAF/BOF, Anssen succeeds in developing a high quality coating at competitive cost, it has a great advantage in anti-oxidation, anti-sulphurization, thermal resistant, anti-erosion, easy operation, its main use :

- Blowing oxygen or other gas into EAF;
- Injection of powder additive to adjust the steel composition;
- Clean slag from converter ;
- Special purpose which requires high refractoriness, anti-oxidation, anti-sulphurization, anti-erosion;

Types	Ceramic coated pipe	Calorized pipe	Calorized & ceramic coated pipe
Thickness of calorizing layer	Without	OD 0.15~0.25mm ID 0,15~0,25mm	OD 0.15~0.25mm ID 0,15~0,25mm
Thickness of ceramic coating	OD 0,40-1.20mm ID 0,10~0,20mm	Without	OD 0,40-0,80mm ID 0,10~0,20mm
Number of layers	3 layers	3 layers	5 layers
Pipe material	Carbon Steel Pipe (both welded & seamless available)		
Pipe diameter	3/4" ~ 4" according to client's requirement		
Connection method	Threaded or hydraulic pressed coupling		

ANSSEN Type1	Both ends threaded with one coupling & one plastlc cap.	
ANSSEN Type2	Both ends threaded with one coupling & one plastlc cap.	
ANSSEN Type3	Both ends threaded with one coupling & one plastlc cap.	
ANSSEN Type4	No threads,no coupling	
ANSSEN Type5	No threads,no coupling	
ANSSEN Type6	No threads with one pressed coupling	

Our calorized ceramic lance pipes are successfully serving steel giants like Baosteel, Anshan steel, Guangzhou steel,Posco(ZJG Plant).

Cored Wire

Cored wire is widely used on ladle refining process.

● What is cored wire?

Crushing the additives (deoxidant,desulfurizer,alloys) into certain granulation (in the form of powder), then,using the equipment to fill the powder into the "U" shaped sheath, which is made of high quality cold rolled steel strip, lastly, tightly closing the wire, so a multiple material(cored wire) with certain length will be obtained.

● How to use cored wire?

By using feeding machine to inject the cored wire or aluminum wire with exact length reaching into the bottom area of Ladle at an reasonable speed, along with the melting of wire sheath, the included powder will be evenly dispersed & reacts with the liquid steel inside the ladle, so following treatment and purpose will be achieved during such process:

- Deoxidizing, desulfurizing, alloying;
- Improving nature & the morphology of steel as well as the machinability;
- Purifying liquid steel & avoiding nozzle clogging;

● What's the advantage of using cored wire?

- Precise alloy addition & higher alloy recycling rate result in low consumption;
- Environment-friendly process compared with traditional treating method, so low pollution;
- Automated operation achievable, so low labor costs;

● How many cored wire available?

- Diameter : 9/13/16mm
- Category : AlCa coredwire, CaSi cored wire, CaFe cored wire,Graphite (carbon) cored wire, Mn cored wire, Pure calcium cored wire,S cored wire.
- Unreeling : Horizontal / Vertical from inside.
- Productivity : 8000-10000mt per year

High Alumina Brick

(1)Fireclay brick

Item	Unit	Specification	
		FC-1	FC-2a
Refractoriness	.C	≥1750	≥1730
0.2MPa Refractoriness under load	.C	≥1400	≥1350
Apparent porosity	%	≤23	≤24
Cold crushing strength	Kgf/cm²	≥300	≥250

(2)High alumina brick

Item	Unit	Specification				
		HA-80	HA-75	HA-65	HA-48	
Al2O3 content	%	≥80	≥75	≥65	≥48	
Refractoriness	.C	≥1790	≥1790	≥1790	≥1790	
0,2MPa refractoriness under load	.C	≥1520	≥15200	≥1500	≥1420	
Apparent porosity	%	≤22	≤23	≤23	≤23	
Cold crushing strength	MPa	≥60	≥54	≥49	≥49	
Reheating liner change (1500.C X 2H)	%	+0,1	+0,1	+0,1	1450.C x 2H	+0,1
		-0,4	-0,4	-0,4		-0,4

Insulating Bricks

(1) High alumina insulation brick

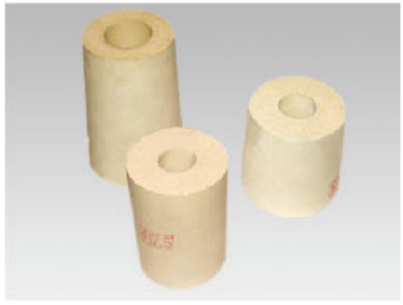
Item	Unit	Specification					
		HBD-1.0	HBD-0.9	HBD-0.8	HBD-0.7	HBD-0.6	HBD-0.5
Al2O3 content	%	≥48	≥48	≥48	≥48	≥48	≥48
Fe2O3	%	≤2.0	≤2,0	≤2,0	≤2,0	≤2,0	≤2,0
Bulk densitym²	g/cm³	≤1.0	≤0,9	≤0,8	≤0,7	≤0,6	≤0,5
Thermal conductivity (350+/-25.C)	W/m.k	≤0.5	≤0,45	≤0,35	≤0,35	≤0,30	≤0,25
Cold Crushing Strength	Kgf/m²	≥40	≥35	≥30	≥25	≥20	≥15
Temperature of liner change within 2%on reheating	%	1400	1400	1400	1350	1350	1250

(2) Fireclay insulation brick

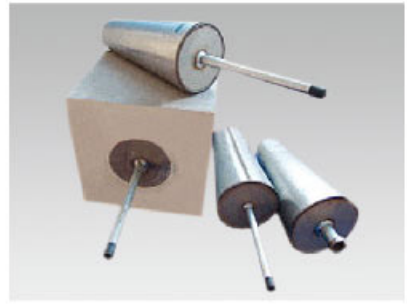
Item	Unit	Specification				
		FBD-1.0	FBD-0.9	FBD-0.8	FBD-0.7	FBD-0.6
Bulk density	g/cm³	≤1,0	≤0,9	≤0,8	≤0,7	≤0,6
Thermal conductivity (350+/-25.C)	W/m.k	≤0,5	≤0,40	≤0,35	≤0,35	≤0,25
Cold crushing strength	Kgf/m²	≥30	≥25	≥25	≥20	≥15
Temperature of liner change within 2%on reheating	%	1350	1300	1250	1250	1200

Slide Gate

ZrO_2 Nozzle



Porous Plug



Continuous casting refractory

• Long nozzle • Submerged entry nozzle • Stopper • Zirconium nozzle • Well block

Ladle & Tundish refractory

• Slide gate • Castables of different grades • Mortars of different grades • Ladle bricks

Magnesia based refractory

• Magnesia C bricks • Unshaped refractory

Slag Pot

Slag pot is widely used in steel and casting industry. It is a kind of container that takes up steel slag. The slag pot can be divided into three parts, slag body, trunnion and turning mechanism.

Generally speaking, the slag body is made in cast steel, the trunnion and turning mechanism are made in forged steel. We can also supply the slag pot by whole casting according to customer request.

Slag pot material:
1) Plain carbon steel
2) Low-alloy steel

Our main production equipment:
1. 80mt ultra-high power electric arc furnace,
2.120mt refining furnace,
3. 30mt electrode arc furnace,
4. 5mt electric arc furnace,
5. 3 sets of heat treatment furnace,
6. 10Mx10M shot blasting machine,
7. 260mt and 200mt crane.

We supplied slag pot unit weight ranges from 5.8 ton to 86 ton. The slag pot exports to Germany, Japan, South Korea, India, Mexico, our products enjoy high reputation.

Light Burned Magnesia Slagging Ball

Light burned magnesia slagging ball, we also called Cinder ball (as mentioned below) and MgO Ball.Cinder Ball are made of Caustic Calcined Magnesite powder by balling under high pressure, which are a kind of products applied to a rotary melting furnace slag making.

Specifications:

1. Use the Caustic Calcined Magnesite as raw material

2.Balling under high pressure

Feature:

1.Excellent effect for protecting furnace

2.Low loss:5-15%MAX

3.Easy to operate

Application :

1.Applied to converter slag-making

2.It effectively improves the melting rate of scrap steel and slag

3.Protect the furnace lining

Magnetite Fines for Coal Washing

Magnetite fines(or heavy medium powder) is a kind of powder metallurgy and used for coal washing industry, also can be used for iron and steel smelting. The method of heavy medium powder for coal dressing is to use liquid that the density between the net coal and waste rock for sorting. The floating coal which the density is lower than the heavy medium powder while the sinking coal which the density is higher than the heavy medium powder. Then collected and classified as different products.

Type \ Item	Magnetic Content	Fineness	Magnetic Density (g/cm^3)	Moisture
MF-1	≥95%	≥90%	≥4.5	≤9%
MF-2	≥85%	≥85%	4.2-4.3	≤9%

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