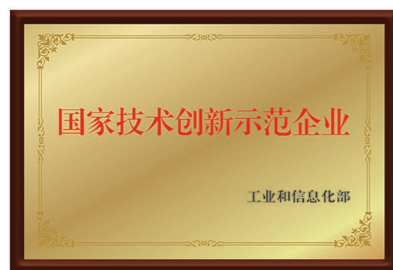




Riser sleeve

- ◎ FT500 General Exothermic Insulating Riser Sleeve
- ◎ FT100 (III) (Middle and Large Size) Exothermic Insulating Riser Sleeve
- ◎ FT400 (Large Size) Exothermic Insulating Riser Sleeve
- ◎ FT400 Exothermic Insulating Flexible Board
- ◎ FPS500 Direct Pour Riser Sleeve
- ◎ FT200 Insulating Riser Sleeve
- ◎ FM100 Exothermic Insulating Riser Sleeve
- ◎ FI200 Insulating Riser Sleeve
- ◎ L7 High-strength Riser Sleeve
- ◎ Efficient Exothermic Insulating Riser Cover
- ◎ ECD Breaker Core
- ◎ ZG Series Paper pouring Tube
- ◎ ZG-Straight Tube
- ◎ ZG- Elbow Tube
- ◎ ZG- Eee Joint

Enterprise Honor



Company Profile

Jinan Shengquan Group Share Holding Co., Ltd. was established in 1979. It is an innovative enterprise group focusing on the research, development and comprehensive utilization of various plant straws. It is involved in five major industries including the high-performance resins and new composite materials industry, health industry, biomass industry, bio-pharmaceutical industry, and new energy industry.

The foundry material industry is one of the pillar industries that Shengquan Group has developed for a long time and it enjoys a good reputation in this industry. After more than 40 years of development, the production scale and technology level of Shengquan Foundry Material has ranked among the top in the world. It has been rated as a “Demonstration Enterprise with the Best Performance in the Individual Category of the Manufacturing Industry” by the Ministry of Industry and Information Technology, as well as a “Leading Enterprise in the Foundry Industry” by the China Foundry Association.

Its main products include: foundry no-bake resin, sand 3D printing resin and supporting materials, ultra-low addition cold-box resin, hot-box resin, inorganic binders, paints, filters, exothermic and insulating riser sleeves, melting materials, etc. They are widely used in aerospace, shipbuilding, electric power, machine tools, automobiles, agricultural machineries, rail transit, mining machineries, pipeline valves and other industries. In order to stay close to customers, our company has established multiple production bases and branches at home and abroad, and our market services continue to expand. The domestic market share of our products exceeds 1/3. Our products have been exported to more than 40 countries and regions including the United States, Germany, Spain, Japan, South Korea, Brazil, Mexico, Australia, India, Turkey, etc.

“One-stop Procurement and All-round Service” is the cornerstone of Shengquan Foundry Material’s continuous progress. While providing a series of high-quality products, we also provide customers with professional technical services. Our technical service team is composed of excellent foundry experts at home and abroad. Relying on the powerful detection and analysis methods of our company, we can solve difficult problems encountered in production and provide overall foundry solutions for our customers.

In the future, base on the needs of the foundry industry, Shengquan Foundry Material will continue to research new technologies, develop more environmentally friendly new products with stronger functions, improve professional service levels, so as to meet the requirements of foundry development, promote the progress of foundry technologies, and strive to build a famous brand serving the foundry industry of the world.





Riser Sleeve

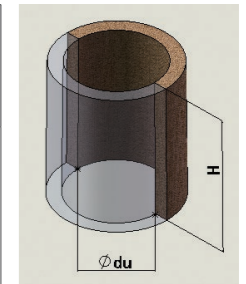
The exothermic insulating riser sleeve can burn and release heat with the help of the exothermic compound, also the riser sleeve is insulating, which can greatly extend the curing time of molten metal in the riser and effectively and persistently feed the castings. Therefore, riser sleeve can reduce the production cost and improve the yield.

FT500 General Exothermic Insulating Riser Sleeve

FT500 exothermic insulating riser sleeve has excellent advantage of low density and efficient exothermic-insulating performance which is mainly applicable for small to medium steel and iron castings, also the corresponding lid. Incorporated in mold is used mostly for molding.

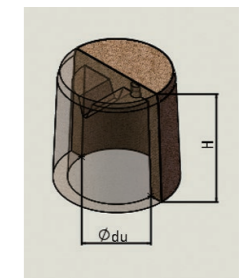
FT500 Open Riser Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FT500-Mdu x H (FT500-M40 x 75 -- FT500-M140 x 170)	1.35~3.94	0.87~2.80	94~2817	Incorporated in mold	Resin sand, sodium silicate-bonded sand	Used with riser cover or lid with vent



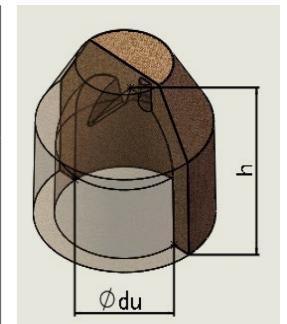
FT500 Blind Riser Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FT500-Adu/H (FT500-A40/70 -- FT500-A140/170)	0.90~3.73	0.64~2.5	52~2140	Incorporated in mold	Resin sand, sodium silicate-bonded sand	With vent



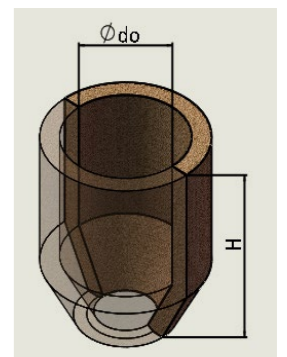
FT500 Dome Blind Riser Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FT500-Adu/hR (FT500-A50/60R -- FT500-A130/140R)	1.41~3.69	1.00~2.64	80~1440	Incorporated in mold	Resin sand, sodium silicate-bonded sand	With vent



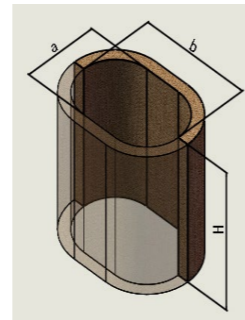
FT500 Neck Down Riser Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FT500-Sdo (FT500-S70 -- FT500-S140)	0.89~3.68	0.63~2.64	245~2700	Incorporated in mold	Resin sand, sodium silicate-bonded sand	1. Used with riser cover or lid with vent 2. Add breaker core at the neck part



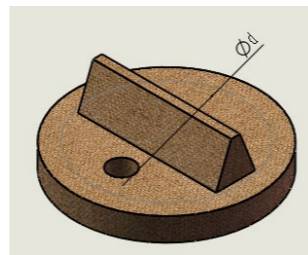
FT500 Oval Riser Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FT500-Ta/b/H (FT500-T40/60/60 -- FT500-T100/150/150)	1.29~3.33	0.94~2.38	120~1900	Incorporated in mold	Resin sand, sodium silicate-bonded sand	1. Used with riser cover or lid with vent 2. Add sand table beneath the riser sleeve (contact with the castings)



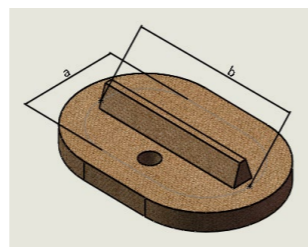
FT500 Round Riser Lid:

Specification	Method of Application	Application field	Cautions
FT500-Gd (FT500-G70 -- FT500-G140)	Used with corresponding riser sleeve	Resin sand, sodium silicate-bonded sand	With vent



FT500 Oval Riser Lid:

Specification	Method of Application	Application field	Cautions
FT500-GTa/b (FT500-GT40/60 -- FT500-GT70/140)	Used with corresponding riser sleeve	Resin sand, sodium silicate-bonded sand	With vent



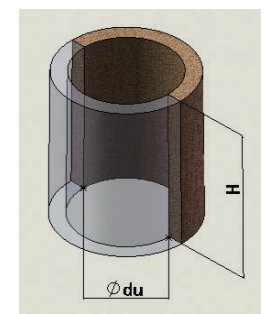
FT100 (III) (Medium and Large Size) Exothermic Insulating Riser Sleeve

FT100 (III) exothermic insulating riser sleeve is made of lightweight exothermic insulating material and used with exothermic compound of calorific value and no pollution to alloy, so as to make sure its efficient feeding performance. Its features of low emission, good permeability and high refractoriness ensure foundry returns are clean.

FT100 (III) exothermic insulating riser sleeve has excellent advantage of low emission, high strength and toughness which is applicable for medium to large size steel and iron castings, also the corresponding lid. Incorporated in mold is used mostly for molding.

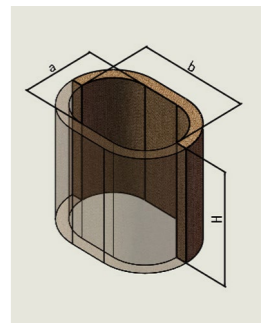
FT100 (III) Cylindrical Riser Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FT100 (III)-Mdu x H (FT100(III)-M150 x 150 -- FT100(III)-M325 x 200)	3.58~6.49	2.75~4.93	2649~16583	Incorporated in mold	Resin sand, sodium silicate-bonded sand	Used with riser cover or lid with vent



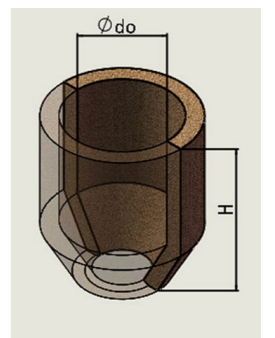
FT100 (III) Oval Riser Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FT100 (III)-Ta/b/H (FT100(III)-T100/200/200 -- FT100(III)-T360/580/300)	3.90~9.52	2.78~7.17	3500~54280	Incorporated in mold	Resin sand, sodium silicate-bonded sand	1. Used with riser cover or lid with vent 2. Add sand table beneath the riser sleeve (contact with the castings)



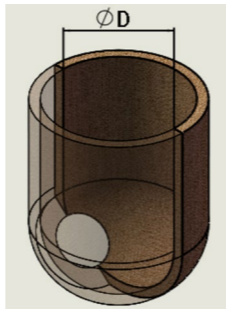
FT100 (III) Neck Down Riser Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FT100(III)-Sdo (FT100(III)-S150 -- FT100(III)-S300)	3.71~7.08	2.90~5.75	2780~21310	Incorporated in mold	Resin sand, sodium silicate-bonded sand	1. Used with riser cover or lid with vent 2. Add breaker core at the neck part



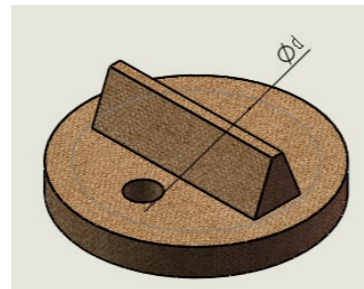
FT100 (III) Side Riser Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FT100(III)-XD (FT100(III)-X150 -- FT100(III)-X350)	4.2 ~7.43	3.40 ~5.98	5101 ~24002	Incorporated in mold	Resin sand, sodium silicate- bonded sand	Used with riser cover or lid with vent



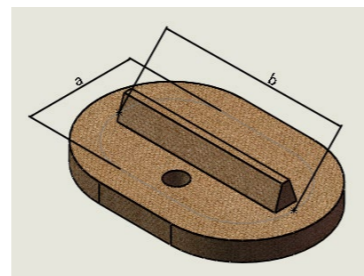
FT100 (III) Round Riser Lid:

Specification	Method of Application	Application field	Cautions
FT100(III)-Gd (FT100(III)-G150 -- FT100(III)-G325)	Used with corresponding riser sleeve	Resin sand, sodium silicate-bonded sand	With vent



FT100 (III) Oval Riser Lid:

Specification	Method of Application	Application field	Cautions
FT100(III)-GTa/b (FT100(III)-GT100/200 -- FT100(III)-GT300/450)	Used with corresponding riser sleeve	Resin sand, sodium silicate-bonded sand	With vent

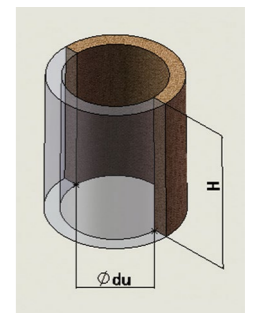


FT400 (Large Size) Exothermic Insulating Riser Sleeve

FT400 (large size) exothermic insulating riser sleeve is applicable for large size steel and iron castings. Riser cover is advised to be used to achieve the best feeding performance. Incorporated in mold is used mostly for molding.

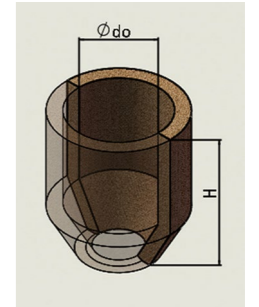
FT400 Cylindrical Riser Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FT400-Mdu × H (FT400-M350 × 175 -- FT400-M850 × 200)	6.13 ~8.84	4.81 ~7.48	16828 ~113433	Incorporated in mold	Resin sand, sodium silicate- bonded sand	1. Used with riser cover 2. Used with lid with vent



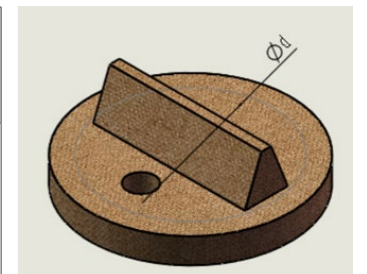
FT400 Neck Down Riser Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FT400-Sdo (FT400-S350 -- FT400-S600)	8.31 ~9.19	6.75 ~7.08	34190 ~41910	Incorporated in mold	Resin sand, sodium silicate- bonded sand	Used with riser cover or lid with vent



FT400 Round Riser Lid:

Specification	Method of Application	Application field	Cautions
FT400-Gd (FT400-G350 -- FT400-G450)	Used with corresponding riser sleeve	Resin sand, sodium silicate-bonded sand	With vent

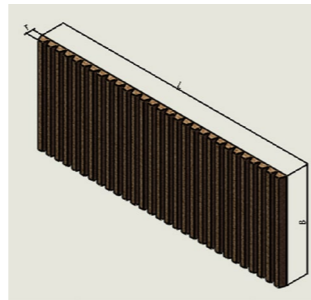


FT400 Exothermic Insulating Flexible Boarda

FT400 exothermic insulating flexible board is made of lightweight exothermic insulating material, it can be bent by certain angle and combined as per shape and size of sleeves for different use on large steel and iron castings.

FT400 Exothermic Insulating Flexible Board:

Specification	Method of Application	Application field	Cautions
FT400-BL × B × T (FT400-B950 × 200 × 30 -- FT400-B1520 × 450 × 60)	Build the riser frame and enclose it with exothermic insulating flexible boards	Resin sand, sodium silicate-bonded sand	The smooth side of the flexible board faces the molten metal

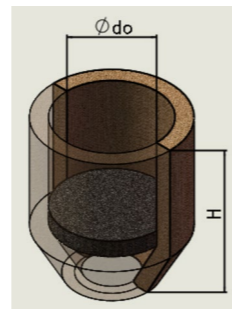


FPS500 Direct Pour Riser Sleeve

FPS500 direct pour riser sleeve is a combination of exothermic insulating riser sleeve and ceramic filter. As the replacement of the sprue, direct pouring can be carried on it. It can reduce the usage of molten and improve the yield rate.

FPS500 Direct Pour Riser Sleevea

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FPS500-Sdo/H (FPS500-S70/140 -- FPS500-S225/250)	1.92~5.29	402~7909	50~200	Used with ceramic foam filter	Resin sand, sodium silicate-bonded sand	Continuous pouring of molten meta



FT200 Insulating Riser Sleeve

FT200 insulating riser sleeve is made of lightweight insulating material.

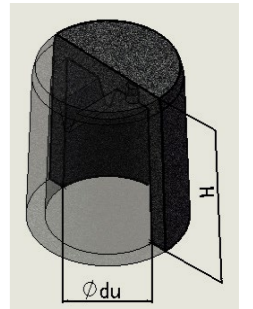
For specification, please refer to the exothermic insulating riser sleeve and modulus of insulating sleeve.

FM100 Exothermic Insulating Riser Sleeve

FM100 exothermic insulating riser sleeve has excellent advantage of low density, high accuracy, high strength and efficient exothermic-insulating performance which is mainly applicable for small to medium steel and iron castings. It can be incorporated in mold or inserted after molding.

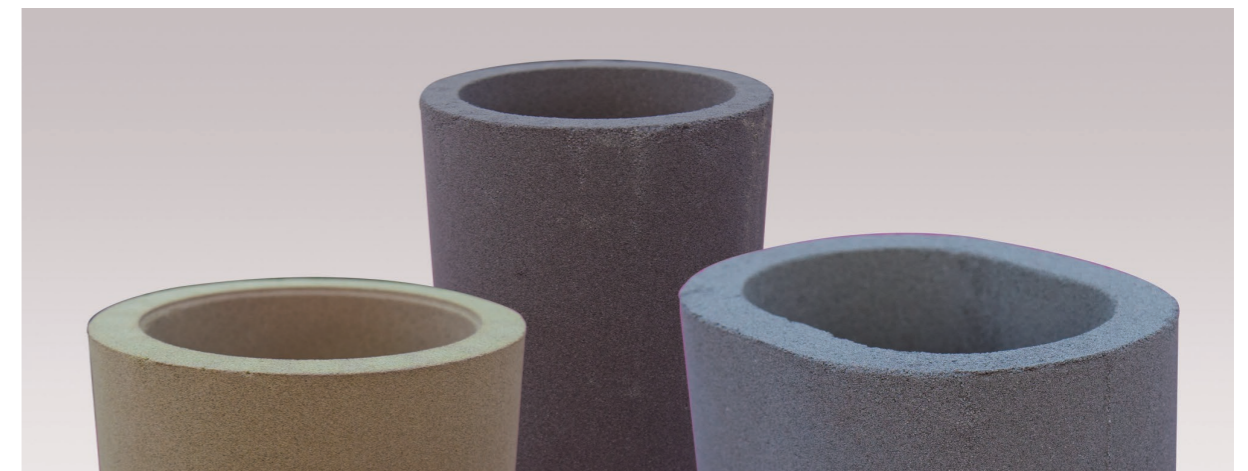
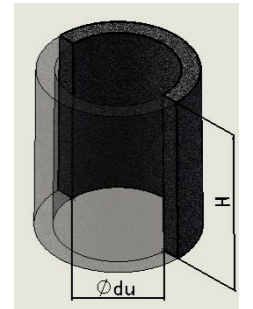
FM100 Blind Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FM100-Adu/H (FM100-A20/35 -- FM100-A140/170)	0.57 ~3.73	0.37 ~2.5	8 ~2140	Incorporated in mold or inserted after molding	1. Resin sand, sodium silicate-bonded sand 2. Green sand	1. Incorporated in mold: enhance venting capacity 2. Inserted: high strength riser sleeve



FM100 Open Sleeve:

Specification	Modulus of Exothermic Insulating Sleeve (cm)	Modulus of Insulating Sleeve (cm)	Volume (cc)	Method of Application	Application field	Cautions
FM100-Mdu × H (FM100-M40 × 70 -- FM100-M150 × 150)	1.34 ~4.05	0.79 ~2.5	94 ~2651	Incorporated in mold or inserted after molding	1. Resin sand, sodium silicate-bonded sand 2. Green sand	1. Incorporated in mold: used with riser cover 2. Inserted: High strength riser sleeve



FI200 Insulating Riser Sleeve

FI200 insulating riser sleeve has excellent advantage of low density, high accuracy, low emission, high strength and high insulating performance which is applicable for steel, iron and aluminum castings. It can be incorporated in mold or inserted after molding.

For specification, please refer to the exothermic insulating riser sleeve and modulus of insulating sleeve.

L7 High-strength Riser Sleeve

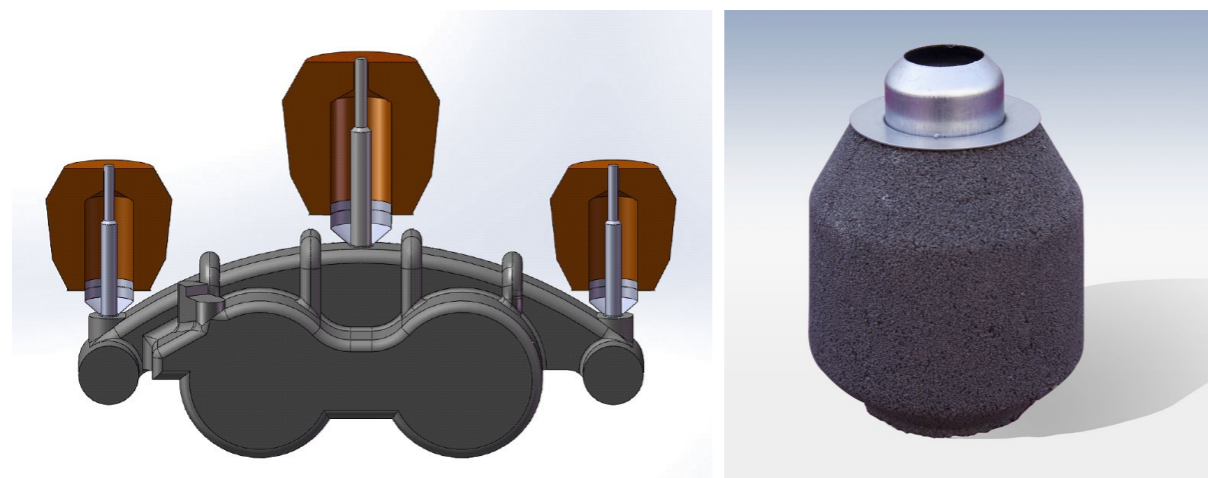
L7 high-strength riser sleeve has excellent advantage of high calorific value and efficiency of feeding which is applicable for mass production of castings on the green sand high-pressure molding line.

Features:

- ⦿ It can bear the pressure of the high-pressure molding line.
- ⦿ The mould sand is compacted excellently around the breaker core.
- ⦿ The exothermic material is completely separated from surface of castings
- ⦿ Extremely small contract areas to the castings.
- ⦿ It is easy to be removed, and the fracture is in the same color of the casting.
- ⦿ It can be flexibly inserted.
- ⦿ It can effectively solve the internal defect of isolated thermal center position in ductile iron castings.

High-strength Riser Sleeve:

Specification	Modulus (cm)	Volume (cc)	Method of Application	Application field	Cautions
L7-V/N (L7-36/17 -- L7-770/30)	1.30~4.2	37~772	High-pressure molding	Green sand	The size of the metal breaker core will affect the feeding effect of the riser



Cautions:

Stored with the intact packaging in a cool and dry place, keep it away from humidity, fire and heat source.

In case of a fire: isolate the burning riser, and use a dry powder extinguisher in case of a small fire, or use foam in case of a big fire. Water extinguisher is prohibited.

Shelf life:

1 year.

Efficient Exothermic Insulating Riser Cover

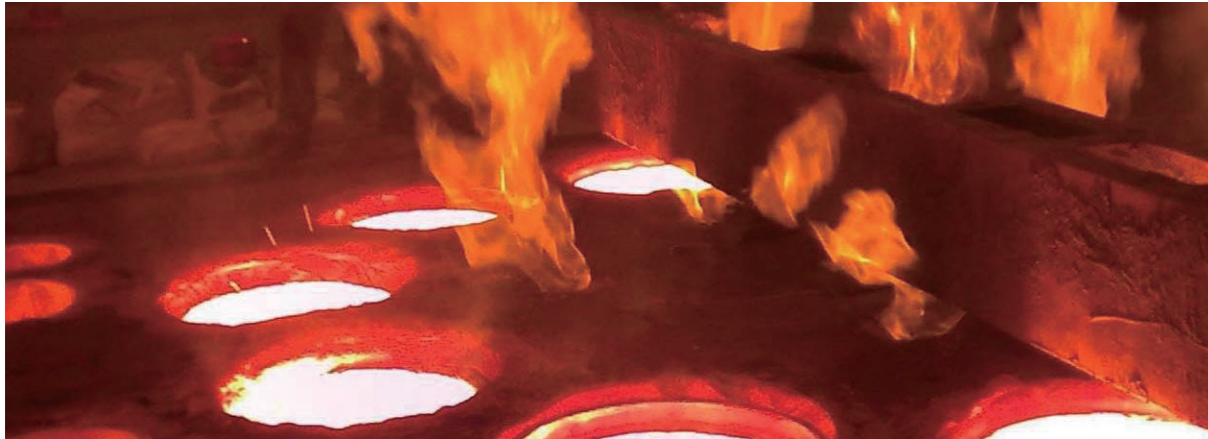
Specification	Exothermic Performance	Insulating Performance	Application field
PM100	High	High	Iron and steel castings
PM200	Medium	High	Iron and steel castings
PM300	Low	Medium	Iron and steel castings
EA	High	Medium	Stainless steel castings

Introduction:

The exothermic insulating riser cover is used on top of the sleeves for both steel and iron castings to prevent thermal radiation, thermal convection from the top of sleeves, decrease thermal loss, prolong setting time, improve shrinking shape, safety factor and feeding performance.

Features:

- ⦿ It has high calorific value and good insulating properties, temperature of local molten metal up to 1650°C .
- ⦿ It is with good insulating capacity and low conductive coefficient, the porous structure layer is formed rapidly.
- ⦿ It has good spreadability and good slag coagulation performance.
- ⦿ PM riser cover has the effect of expansion when using, which can improve its insulating performance and reduce thermal loss to achieve better feeding performance.
- ⦿ Low addition ratio and easy to handle.



Method of Application:

1. Put it inside when the molten metal reaches half of the sleeves.
2. Adjust the pouring height to make sure the molten metal never overflow.
3. Pouring thru the sleeves is not allowed after putting it inside.

Cautions:

Store in cool and dry place and keep it away from overheat and humidity in case of caking. Keep away from fire and heat source, make sure the extinguisher is available at the store.

Packaging:

25KG net weight woven bag with lining of plastic film or customerization.

Shelf life:

1 year.



ECD Breaker Core

Introduction:

ECD breaker core has high strength and good heat resistance, complete in specifications.

Features:

- ⦿ It can be removed by mechanical hammer
- ⦿ It can prevent cracks and damages when cutting the root of the big sleeves
- ⦿ It can prevent the hot section at the root of the sleeves and improve the mechanical properties of castings

Specifications:

Specification	Method of Application	Application field	Cautions
ECD du/N/D (ECD35/18/50 -- ECD140/70/180)	Used with cylindrical riser sleeve	Resin sand, sodium silicate-bonded sand, and green sand	Used with corresponding sleeve

Cautions:

Be gentle during loading, unloading and handling in case of collision.

Packaging:

Packaged in carton or as customerization.



ZG series paper pouring tube

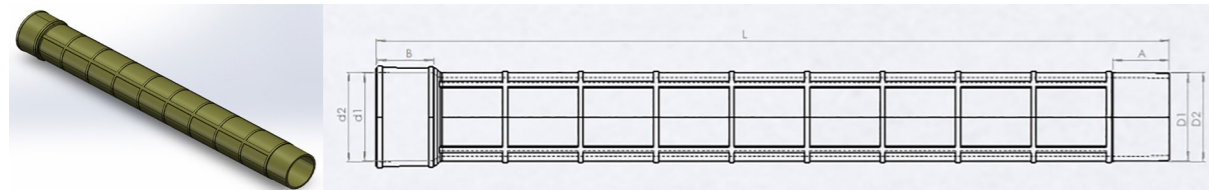
Paper pouring tube for foundry can replace ceramic pouring tube, are mainly used in lost foam casting, full mold casting, traditional sand casting, etc, which can improve the quality of castings, reduce the scrap rate, improve the quality of reclaimed sand, and reduce the work intensity of workers.



ZG-straight tube

规格型号:

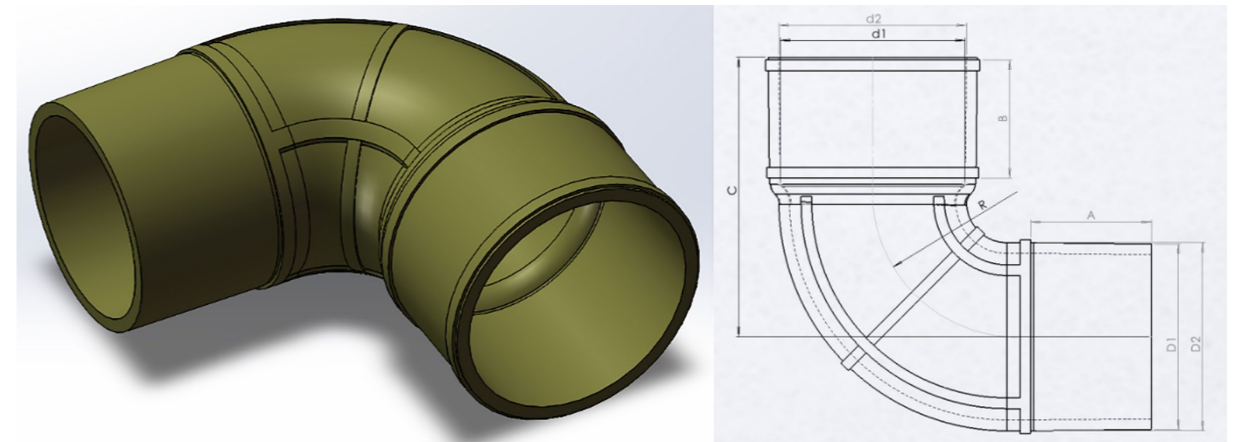
Type	Size							Package (pc/box)
	A (mm)	B (mm)	D1 (mm)	D2 (mm)	d1 (mm)	d2 (mm)	L (mm)	
ZG-25Z	22	22	29.5	30	30.5	31	310	156
ZG-30Z	22	22	34.5	35	35.5	36	310	156
ZG-50Z	27	27	52.4	53	53.4	54	310	68
ZG-70Z	27	27	72.4	73	73.4	74	310	39



ZG- elbow tube

Specification

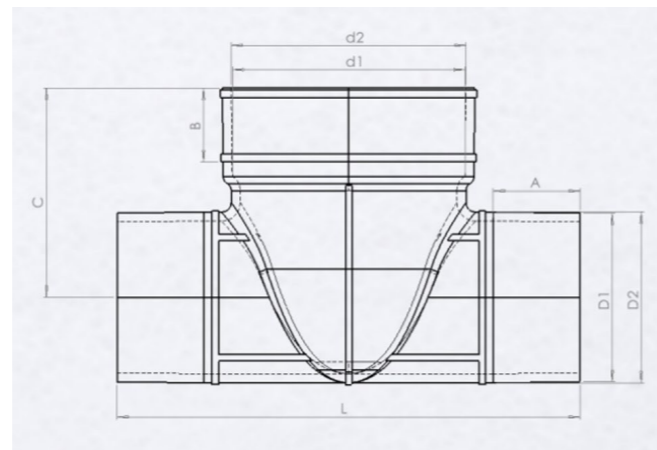
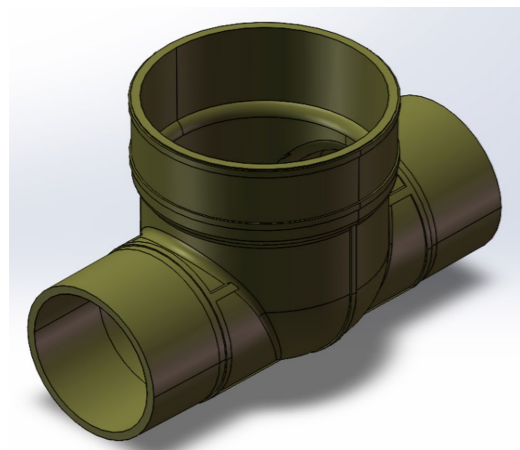
Type	Size								Package (pc/box)
	A (mm)	B (mm)	D1 (mm)	D2 (mm)	d1 (mm)	d2 (mm)	C (mm)	R (mm)	
ZG-25W	22	22	29.5	30	30.5	31	52	25	126
ZG-30W	22	22	34.5	35	35.5	36	52	30	126
ZG-50W	27	27	52.4	53	53.4	54	65	35	50
ZG-70W	27	27	72.4	73	73.4	74	84	50	32



ZG- tee joint

Specification

Type	Size								Package (pc/box)
	A (mm)	B (mm)	D1 (mm)	D2 (mm)	d1 (mm)	d2 (mm)	C (mm)	L (mm)	
ZG-50/30S	22	27	34.5	35	53.4	54	52	112	62
ZG-70/50S	27	27	52.4	53	73.4	74	84	145	36



Application:

1. According to the process design, use straight tubes, elbow tubes, and tee joint tubes to connect to form a pouring system;
2. When need to adjust the length, use a paper cutter to cut the tube, then connect it;
3. The joints of the cutting parts need to be wrapped with tape to prevent gaps affecting the effect of the tube;

Storage and shelf life

Keep in cool and dry place, away from moisture, avoid compression.
Handle with care during package, loading, transportation.

Shelf life

One year.

Product Lines

- Resin
- Coating
- **Riser sleeve**
- Filter
- Auxiliary material
- Customized products and services
- Used sand reclaim project



Jinnan SQ Group

Address: Shengquan Industrial Park, Zhangqiu District, Jinan City, Shandong Province

Tel: + 86-531-83511609

E-mail: sqwmb@shengquan.com

Website: www.shengquan.com

Version:202104.Product specification is subject to change without any notice