



ABN:39 865 951 145

Advanced Material Technologies

Providing Solutions, Delivering Results!

ACN:154 533 794

Advanced Material Technologies Pty Ltd represents Refuta Refractories CO., LTD is headquartered in ChangZhou China. As the professional manufacturer of advanced monolithic and functional refractory, Refuta's main products include refractory castable, pre-cast shapes, gunning materials, plastic ramming materials, coating materials and brick mortar. Annual production capability is 32000 tons. Products are widely used in high temperature furnaces and kilns in aluminum and non-ferrous industry, iron & steel industry, foundry industry, electricity power generation industry, waste incinerator and etc. Refuta's key competencies are from outstanding product quality, modern management system and professional service. Refuta's operation team is composed of materials experts, industrial furnace experts and management professionals. The factory is designed according to world class standard and production system is controlled by PLC. The product and service are continuously improved with the management system of Total Quality Management (TQM ISO9000) and customer relation management . The materials design and product application can be closely connected with excellent human resource and strong R&D capability.

Refuta in aluminum and non-ferrous industry

Refuta Refractories Co., Ltd achieves many refractory innovation and patent technologies in aluminium and non-ferrous field. Products are designed according to world class standard and widely used in aluminium melting, holding furnace and transfer ladles. To a lot of aluminium plants and famous furnace makers, Refuta products are the first choice for refractory furnace lining.

Products export to Canada, New Zealand, Japan, Korea, Russia and South East Asia and others.



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R&D CENTER



Refuta Refractories holds one R&D center of J.M.C technology center. J.M.C center undertakes products testing and new products development. The operation team is composed of professionals and experts from materials, thermal industry and designing field. J.M.C

center also keeps wide tech cooperations with some famous colleges and customers such as Wuhan University of Science and Technology, Alcoa company and others.





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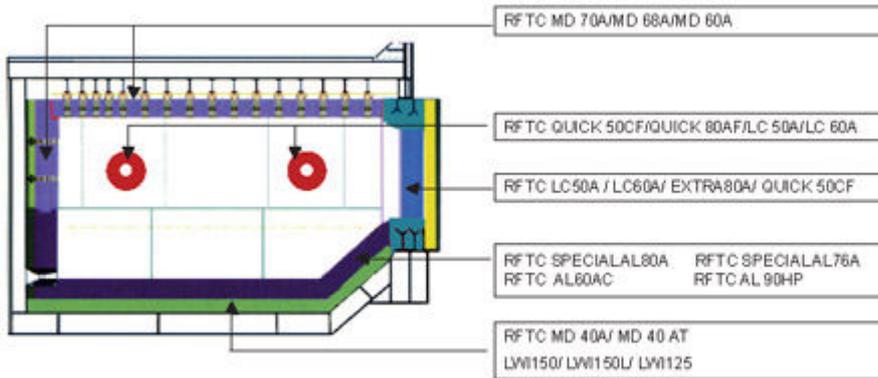
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REFUTA Products and Applications

Refractories for Reverberatory furnace



Aluminium non-wetting low cement castable

●Advantages and properties :

RFT special Al series are high purity, ultra-low cement castable with high density, high strength and non-wetting properties. They are specifically designed for molten aluminium applications including hearth, furnace sidewalls, sills, ramps, ladles and degas boxes. It can significantly reduce molten metal penetration and corundum growth.

●Products and data :

RFTC Special AL80A / RFTC Special AL76A
RFTC AL60AC / RFTC AL 90HP



Aluminium corrosion cup test



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MD series castable

Advantages and properties :
High alumina castable with excellent working properties, high strength and good abrasion resistance. It is especially designed for the roof and upper wall.



- Products and data :
RFTC MD 70A / RFTC MD 68A /
RFTC MD 60A

Self flow castable and high strength low cement castable

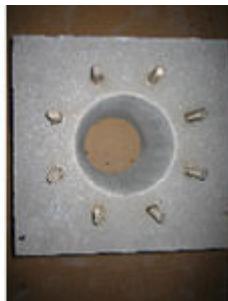
- Advantages and properties :
Ultra-low cement and self-flow castable with high fluidity allowing installation into intricate shapes with minimal vibration. Exhibits ultra high strength, low porosity and excellent abrasion resistance. Especially good thermal shock resistance. Specifically designed for burner and sills.

- Products and data :

RFTC QUICK 50CF / RFTC EXTRA 80A / RFTC LC50A / RFTC LC60A

Insulating castable (RFT LW castable series)

- Advantages and properties :
RFT LW insulating castable series. Refuta can provide insulating castable with bulk density from 700~1500kg/m³.



- Products and datas :
RFT LWI 70 / RFT LWI 75 / RFT LWI 85 / RFT LWI 100 / RFT LWI125 / RFT LWI 150 /
RFT LWI 150L



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Micro porous super insulation board

Micro porous super insulation board is the lowest thermal conductivity of all insulating materials.

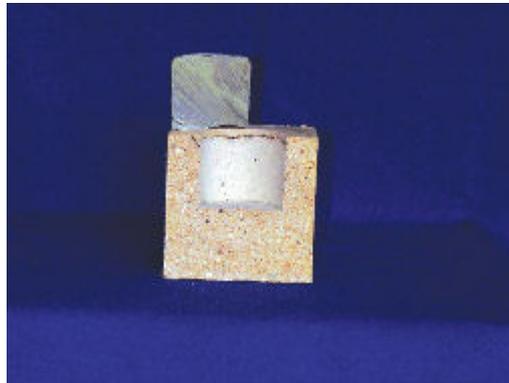
●Advantages and properties :

Lowest thermal conductivity of all insulating materials

High thermal resistance; free of organic binders

Dust-free surface; good machinability; improved strength.

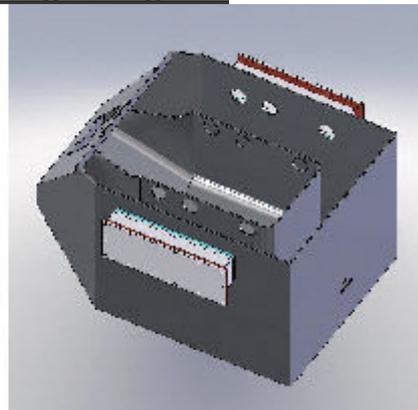
Non-wetting castable for high purity aluminium alloys



●Advantages and properties :

RFTC AL 90HP is specially designed for its excellent non-wetting properties, abrasion resistance, impact resistance and structural strength in melting aluminum alloys.

Refractories for degassing box



●Advantages and properties :

Refuta refractories are designed for degassing and filter box applications. Refuta dense and insulating refractory products are successfully and widely used in the die-



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RFT S-BOND AL Quick setting maintenance RAMMABLE



Advantages and properties :

RFT S-BOND AL is a two component system when mixed together, forms a rapid setting, easily placed fired refractory surfaces to provide non-wetting characteristics.

S-bond AL does not require a lengthy curing cycle and can be placed in service within several hours of setting.



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Tapout block | Dense launder | Burner

Tapout block, dense launder



- Advantages and properties :

Tap-out block and launder are made with specific materials (SiC) with high thermal conductivity, high strength and resistance to abrasion and corrosion.

Light insulating launder, liquid alumium distributor



- Advantages and properties :

Lower thermal conductivity and outstanding resistance to thermal shock. It is designed for molten aluminium applications including launders and ladles.

Pre-cast shapes for reverberatory furnace door, transfer ladle lining





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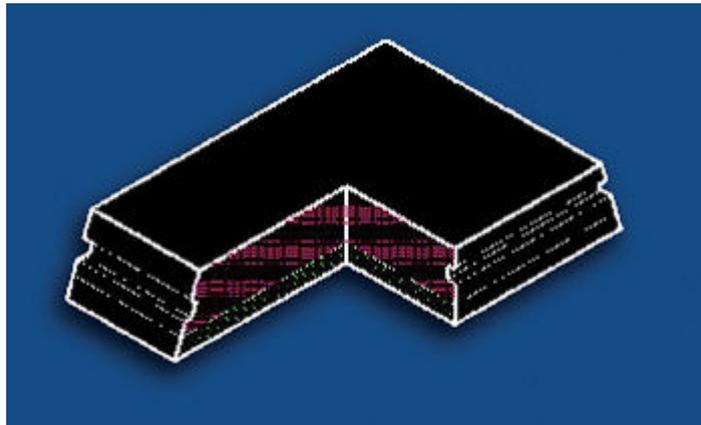
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Refuta can provide pre-cast shapes for aluminium furnace and transfer ladle customers. Precast shapes can largely reduce maintenance down time and improve safety.

Furnace Burner Pre-cast shapes and Stirring impeller for Degas box



Other pre-cast shapes



Advantages and properties :

Refuta can provide different size pre-cast shapes according to customers' requirement.

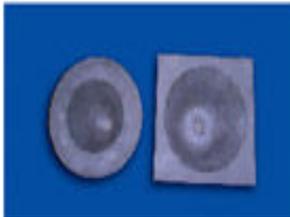


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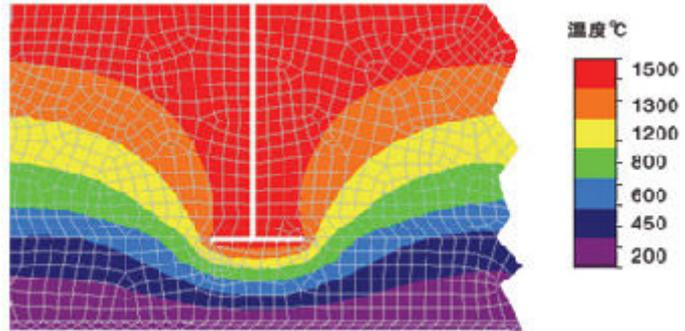
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Design, installation and maintaining

- Design: design engineers provide the furnace refractory lining design based the operation situation and thermal analysis.



- Installation: professional installation service available.

Service scope: refractory installation for reverberatory furnace, melting furnace and holding furnace.

- Maintenance: we provide the furnace maintenance service for aluminium melting and holding furnace, transfer ladle and furnace doors.





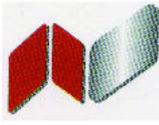
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Customers

 Longray	 BONENG	 HE	 GNA	 松江	 CHINALCO
 ALCOA		 i.i.i	 FURNACE	 LM™	 中钢工业炉
	 GOUNETSU	 良仕 Aluminium Furnace	 CELL 中实奥尔	 ALTECH	
		 Hon Sen Bon			 GISE
		 YHI		 XR	 HYM
 DSL Y	 D&TJER	 HEC	 HDB	 TU	 R
 KATE	 KEIHIN	 ST		 LIHQ	
 YUAN SHENG		 TF			