

掌控空间部位的烧结力量

MASTERING THE SUPERSTRUCTURE

郑州新中科实业集团有限公司

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抖音号

新中科集团

XZK GROUP



XZK GROUP

新中科集团

玻璃行业耐火材料配置系统解决方案

ADVANCED REFRACTORY SYSTEM SOLUTIONS FOR GLASS FURNACES

全面赋能全球浮法、光伏及马蹄焰玻璃熔窑

Empowering Float, Photovoltaic, and End-Fired Furnaces Worldwide

中国 · China



CORPORATE STRENGTH

企业实力

210,000+m²
工厂面积
Factory Area

100,000+MT
年产能
Annual Capacity

400+
全体员工
Employees

3,000+
全球客户
Global Customers

关于新中科

重新定义玻璃窑用
耐火材料的卓越标准

新中科集团（XZK Group）是全球领先的耐火材料系统解决方案提供商，深度聚焦玻璃工业严苛的高温应用场景。依托年产 100,000 吨中高端耐火材料产能与标准化生产质量管理体系，我们确保交付的每一批次产品都具备严谨的理化一致性。

我们的战略定位：成为高温窑炉用耐火新材料行业专家，我们通过攻克高温体积稳定性与抗侵蚀技术，以高品质烧结AZS、硅线石、刚玉、莫来石、铬、锆质系列等核心烧结制品，为玻璃窑大碹、胸墙与蓄热室等部位构筑坚固的防线。

同时，依托强大的行业资源整合能力，新中科构建了一站式耐材供应生态，为客户无缝配套优质的熔铸AZS材料，从而提供覆盖全窑炉、定制化的系统交钥匙工程。

ABOUT XZK GROUP

Redefining Excellence In Glass
Furnace Refractories

XZK Group is a global leading provider of refractory system solutions for high-temperature glass manufacturing. Supported by our 100,000-ton annual capacity and standardized quality control system, we deliver products with stable and consistent physical & chemical performance for every

Our Strategic Focus: As leading experts in sintered refractories for furnace superstructures, we have mastered the challenges of high-temperature volume stability and severe corrosion. Utilizing our premium sintered product lines—including Sintered AZS, Sillimanite, Corundum, Mullite, Chrome, and Zircon series—we engineer robust, long-lasting defenses for critical furnace zones such as crowns, breastwalls,

Leveraging robust industrial resource integration, XZK Group has built a one-stop refractory supply ecosystem. We supply premium fused cast AZS materials and deliver customized turnkey projects covering full furnace systems for clients.



生产线

玻璃窑用耐材生产线配置

新中科集团拥有4条自动化配料控制系统，保障产品性能稳定；同时配备 20 台630-2000 吨的数控压力机；烧成环节拥有4 条 108 米全自动隧道窑、5 座超高温梭式窑，制品烧制均匀，成品率高；拥有7000平米现代化仓储车间、组装平台，集仓储、包装、发运于一体。

PRODUCTION LINE

For Glass Furnace Refractory

Equipped with 4 automatic batching systems and 20 CNC presses (630–2000 tons), our manufacturing line is equipped with four 108 m fully automatic tunnel kilns and five ultra-high-temperature shuttle kilns for uniform firing and high yield. A 7,000 m^2 modern warehouse integrates storage, packaging and shipment.









荣誉证书

- GB/T 4984-2023《含锆耐火材料化学分析方法》
- GB/T 44333-2024《绿色产品评价耐火材料》
- JC/T 2574-2020《玻璃窑用硅线石砖》
- T/CSTM 00853-2024《玻璃窑蓄热室用铬锆刚玉砖》
- JC/T 495-2026《玻璃窑用锆英石砖》
- JC/T 925-2026《玻璃窑用烧结AZS砖》

新中科集团拥有93项核心专利，深度参与多项国家与行业标准的起草与制定，持续为行业的高质量与绿色发展贡献力量。

- 国家高新技术企业
- 河南省专精特新中小企业
- 河南省绿色工厂企业
- 河南省玻璃窑用烧结耐火材料工程技术研究中心









CERTIFICATIONS

- ISO 9001 Quality Management System Certificate
- ISO 14001 Environmental Management System Certificate
- ISO 45001 Occupational Health and Safety Management System Certificate
- ISO 50001 Energy Management System Certificate







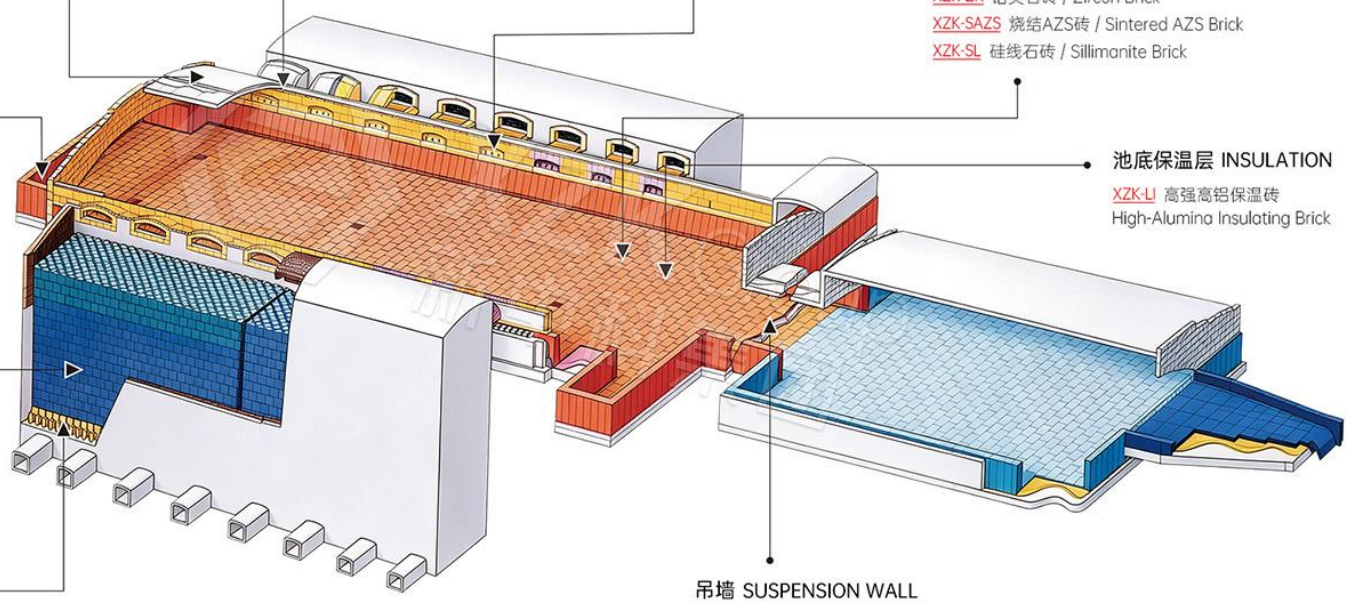


浮法玻璃熔窑耐火材料配置系统

筑牢大吨位熔化周期的结构根基

FLOAT GLASS FURNACE SOLUTIONS

Engineering Structural Stability for High-Tonnage Melting



大碹 CROWN
XZK-GS 硅砖 / Silica Brick
XZK-CM 刚玉莫来石砖 / Corundum Mullite Brick

大碹角 CROWN CORNER
XZK-ZR 锆英石砖 / Zircon Brick

天然气烧嘴 GAS BURNER
XZK-CZC 铬锆刚玉砖 / Zr-Cr-Corundum Brick
XZK-3R 三抗砖 / Chrome-Zirconia-Mullite Brick
XZK-ZM 锆莫来石砖 / Zircon Mullite Brick

池底铺底 TANK BOTTOM
XZK-ZR 锆英石砖 / Zircon Brick
XZK-SAZS 烧结AZS砖 / Sintered AZS Brick
XZK-SL 硅线石砖 / Sillimanite Brick

加料池 DOGHOUSE
挡焰砖 / BAFFLE BLOCK:
XZK-ZM 锆莫来石砖 / Zircon Mullite Brick
XZK-SL 硅线石砖 / Sillimanite Brick

L吊墙 / L-SHAPED SUSPENDED WALL:
XZK-ZM 锆莫来石砖 / Zircon Mullite Brick
XZK-FS 熔融石英砖 / Fused Silica Brick
XZK-CM 刚玉莫来石砖 / Corundum Mullite Brick

池底保温层 INSULATION
XZK-LI 高强高铝保温砖
High-Alumina Insulating Brick

蓄热室 REGENERATOR
XZK-CC 铬刚玉砖 / Chrome Corundum Brick
XZK-HPM 高纯镁砖 / Magnesia Brick
XZK-DN 低气孔粘土砖 / Low-Porosity Clay Brick

炉条碹 PORT CROWN
XZK-SL 硅线石砖 / Sillimanite Brick
XZK-AM 红柱石莫来石砖 / Andalusite Mullite Brick

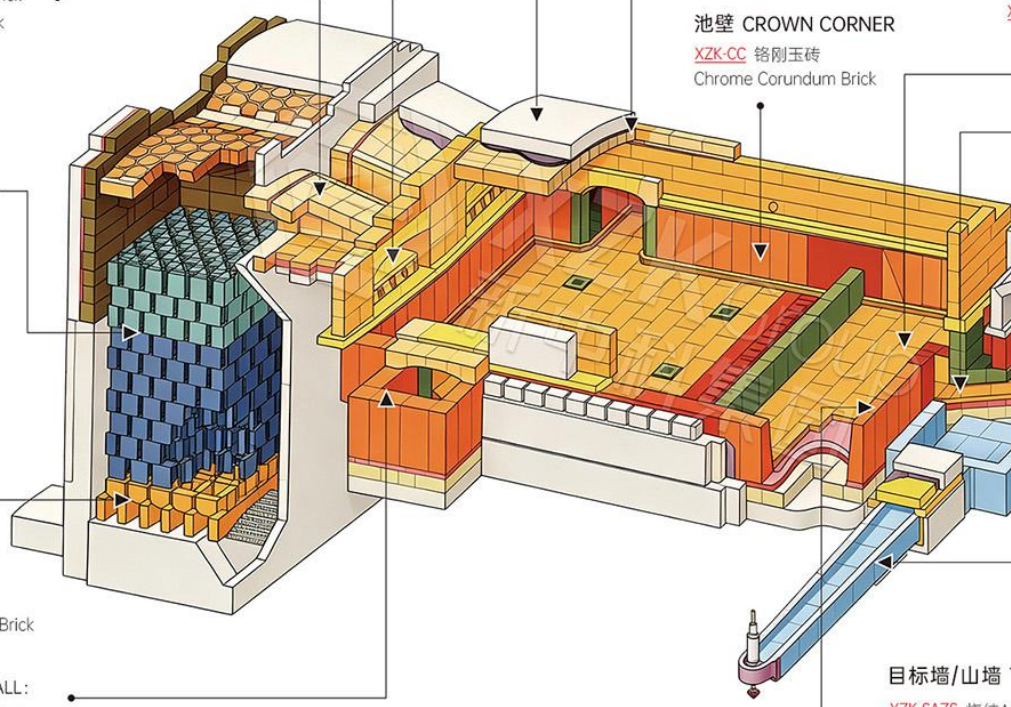
吊墙 SUSPENSION WALL
XZK-CM 刚玉莫来石砖 / Corundum Mullite Brick

马蹄焰熔窑耐火材料配置系统

驾驭极限局部热负荷，赋能日用与特种玻璃制造

END-FIRED FURNACE SOLUTIONS

Mastering Localized Thermal Loads for Container & Special Glass



小炉颈与喷火口
PORT NECK & BURNER BLOCK
XZK-SAZS 烧结AZS 砖 / Sintered AZS Brick
XZK-FAZS 熔铸AZS 砖 / Fused AZS Brick

蓄热室 REGENERATOR
XZK-CC 铬刚玉砖 / Chrome Corundum Brick
XZK-HPM 高纯镁砖 / Magnesia Brick
XZK-DN 低气孔粘土砖 / Low-Porosity Clay Brick

炉条碹 PORT CROWN
XZK-SL 硅线石砖 / Sillimanite Brick
XZK-AM 红柱石莫来石砖 / Andalusite Mullite Brick

加料池 DOGHOUSE
挡焰砖 / BAFFLE BLOCK:
XZK-ZM 锆莫来石砖 / Zircon Mullite Brick
XZK-SL 硅线石砖 / Sillimanite Brick

L吊墙 / L-SHAPED SUSPENDED WALL:
XZK-ZM 锆莫来石砖 / Zircon Mullite Brick
XZK-FS 熔融石英砖 / Fused Silica Brick
XZK-CM 刚玉莫来石砖 / Corundum Mullite Brick

大碹 CROWN
XZK-GS 硅砖 / Silica Brick
XZK-CM 刚玉莫来石砖
Corundum Mullite Brick

大碹角 CROWN CORNER
XZK-ZR 锆英石砖 / Zircon Brick

池壁 CROWN CORNER
XZK-CC 铬刚玉砖
Chrome Corundum Brick

池底铺底 TANK BOTTOM
XZK-ZR 锆英石砖 / Zircon Brick
XZK-SAZS 烧结AZS砖 / Sintered AZS Brick
XZK-SL 硅线石砖 / Sillimanite Brick

流液洞 THROAT
XZK-99AL 99氧化铝砖 / 99% Alumina Brick

料道盖板 ROOF
XZK-SL 硅线石砖 / Sillimanite Brick
XZK-CM 刚玉莫来石砖
Corundum Mullite Brick

料道槽 FOREHEARTH CHANNEL
XZK-99AL 99氧化铝砖 / 99% Alumina Brick

目标墙/山墙 TARGET WALL / GABLE WALL
XZK-SAZS 烧结AZS砖 / Sintered AZS Brick
XZK-ZM 锆莫来石砖 / Zircon Mullite Brick
XZK-CM 刚玉莫来石砖 / Corundum Mullite Brick

蓄热室配置系统

多温区定制化解决方案

损毁机理与多温区挑战

>1100℃（高温区）：承受剧烈热震，并直接面对高流速碱蒸汽与飞料的正面冲刷。

800-1100℃（冷凝区）：挥发性碱蒸汽与硫氧化物反应生成破坏性的硫酸盐冷凝物，引发极端的化学侵蚀与格子体堵塞。

<800℃（底层）：在持续的热循环下，需长期承受上方整个格子体庞大的累积机械承重。

新中科解法

我们提供定制化多温区配置。将优质镁质系列与极度抗侵蚀的铬刚玉筒形砖结合，构筑完美换热矩阵。底部核心支撑部署新中科硅线石/红柱石炉条碹，确保极致的抗蠕变性与长效结构安全。

THE REGENERATOR SYSTEM

WEAR MECHANISM

>1100℃ (Top): Severe thermal shock & high-velocity alkali/batch attack.

800-1100℃ (Condensation): Sulfate condensation causing volume expansion & blockage.

<800℃ (Bottom): Continuous thermal cycling & massive mechanical load.

THE XZK SOLUTION

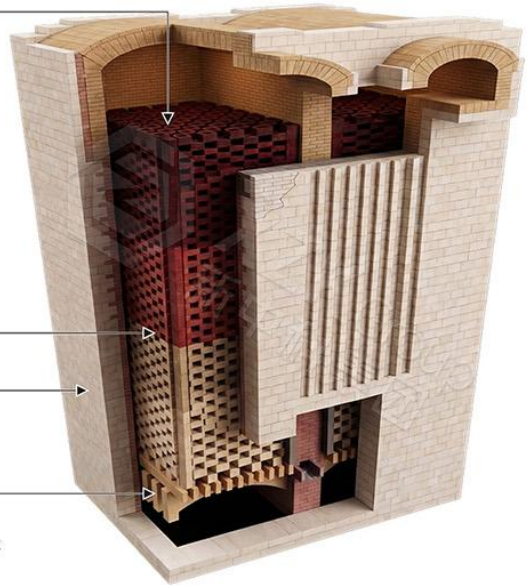
We deliver customized zonal configurations. By integrating premium Magnesia series and Chrome Corundum cylinder bricks, we create a stable and efficient refractory lining system. For foundational support, our Sillimanite and Andalusite rider arches guarantee ultimate creep resistance and structural security.

顶层与高温区
TOP COURSES & HOT ZONE
XZK-CC 铬刚玉砖 / Chrome Corundum Brick
XZK-MZ 镁锆砖 / Magnesia Zircon Brick

冷凝区与底层
CONDENSATION ZONE & BOTTOM COURSES
XZK-HPM 高纯镁砖 / High-Purity Magnesia Brick
XZK-MA 镁铝尖晶石砖 / Magnesia Spinel Brick
XZK-SL 硅线石砖 / Sillimanite Brick

外墙 EXTERIOR WALL
XZK-DN 低气孔粘土砖
Low-Porosity Clay Brick

炉条碹 PORT CROWN
XZK-SL 硅线石砖 / Sillimanite Brick
XZK-AM 红柱石莫来石砖 / Andalusite Mullite Brick





铬刚玉筒形砖
Cylindrical Chrome Corundum Brick



硅线石筒形砖
Cylindrical Sillimanite Brick



高纯镁砖
High-Purity Magnesia Brick



硅线石砖
Sillimanite Brick



红柱石莫来石砖
Andalusite-Mullite Brick



低气孔粘土砖
Low Porosity Clay Brick

熔化部配置系统

极致抗侵蚀与无缝防漏生态

THE MELTING BASIN

损毁机理

液面线：长期承受高温玻璃液环流所带来的剧烈化学侵蚀，以及连续不断的机械冲刷。

池底铺面：配合料中高密度重金属等异物沉积，极易穿透砖缝并引发破坏性的"向上钻孔"侵蚀。

流液洞：作为窑炉咽喉，面临极度频繁的热震、极强的机械磨损与最高流速冲刷。

新中科解法

我们提供完整的交钥匙熔炼生态。在配套优质熔铸AZS抵御直接侵蚀的同时，新中科强效守护底盘次层。通过高致密度的锆英石砖与锆质捣打料，在铺面下方构筑坚不可摧的防漏密封层，彻底扼杀金属钻孔。此外，新中科自产的高强轻质高铝保温砖提供卓越的底部隔热结构，最大化能源效率。

WEAR MECHANISM

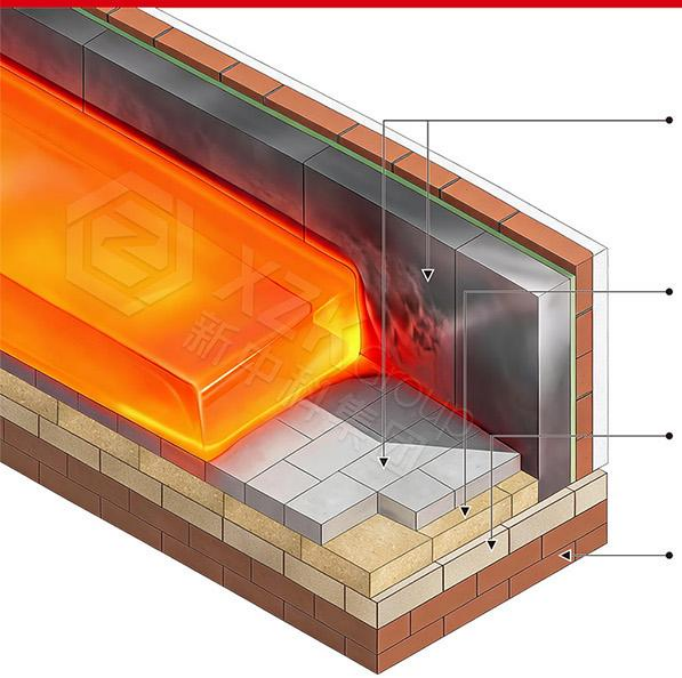
Flux Line : Intense chemical corrosion & mechanical scour from melting glass.

Bottom Paving : Upward drilling erosion caused by heavy metal contaminants.

Throat : Severe thermal shock, extreme abrasion, & highest melt velocity.

THE XZK SOLUTION

We deliver a complete turnkey melting ecosystem. Alongside premium Fused Cast AZS for direct melt contact, XZK secures critical sub-layers. Our dense Zirconite Bricks and Zircon Ramming Masses form an impenetrable seal against metal drilling, while our High-Strength Lightweight High-Alumina Bricks maximize insulation and energy efficiency.



池壁与池底
FLUX LINE & SIDEWALL
XZK-FAZS 熔铸AZS砖 33/36/41#
Fused AZS Brick 33/36/41#

池底亚层
TANK BOTTOM SUB-LAYER
XZK-ZR 锆英石砖 / Zircon Brick
XZK-RM-ZR 锆质捣打料
Zircon Ramming Mass
XZK-SAZS 烧结AZS砖
Sintered AZS Brick

池底保温层
BOTTOM INSULATION LAYER
XZK-LI 高强高铝保温砖
High-Alumina Insulating Brick

池底底层支撑/铺底
BOTTOM STRUCTURAL SUPPORT
粘土大砖 / Clay bottom block
XZK-DN 低气孔粘土砖
Low-Porosity Clay Brick



熔铸AZS 砖 33/36/41#
Fused AZS Brick 33/36/41#



锆英石砖
Zircon Brick



锆质捣打料
Zircon Ramming Mass



高强高铝保温砖
High Alumina Insulating Brick



低气孔粘土砖
Low Porosity Clay Brick

空间结构与燃烧配置系统

核心防线的特种烧结防御

损毁机理

碹顶保温：穹顶需要极致的隔热保温，但绝不能过度增加拱体的结构自重荷载。

大碹与胸墙连接部：碹脚与挂钩砖区域承受着极大的结构应力，并面临碱蒸汽极其严重的向上穿透侵蚀。

天然气烧嘴砖：位于小炉颈核心区，直面爆发现象级的局部高温、高流速火焰湍流，并在周期性换向中承受极限热震。

新中科解法

新中科聚焦特种烧结耐材，为空间结构关键节点提供可靠方案。在大碹与胸墙连接部，致密锆英石砖有效阻断碱蒸汽向上渗透。在高温燃烧区，三抗砖（3R）与铬刚玉烧嘴砖凭借优异的抗热震与耐冲刷性能，保障天然气喷口长期稳定。此外，主拱上方辅以轻质硅砖进行结构隔热。



大碹 MAIN CROWN

XZK-GS 硅砖 / Silica Brick

XZK-CM 刚玉莫来石砖 / Corundum Mullite Brick

XZK-LS 轻质硅砖 / Lightweight Silica Brick

大碹角 CROWN CORNER

XZK-ZR 锆英石砖 / Zircon Brick

胸墙 BREASTWALL

XZK-FAZS 熔铸AZS砖 / Fused AZS Brick

XZK-GS 硅砖 / Silica Brick

XZK-CM 刚玉莫来石砖
Corundum Mullite Brick

天然气烧嘴
GAS BURNER BLOCKS

XZK-ZM 锆莫来石砖 / Zircon Mullite Brick

XZK-CZC 铬锆刚玉砖
Chrome-Zirconia-Mullite Brick

XZK-3R 三抗砖
Chrome-Zirconia-Mullite Brick

SUPERSTRUCTURE & COMBUSTION SYSTEM

WEAR MECHANISM

Crown Insulation : Requires effective thermal insulation without adding excessive structural deadweight to the arch.

Crown-Breastwall Junction : Endures intense structural stress and severe upward alkali vapor penetration.

Gas Burner Blocks : Faces extreme localized temperatures, high-velocity flame turbulence, and severe thermal shock during reversals.

THE XZK SOLUTION

XZK provides reliable sintered refractories for critical superstructure nodes. At crown-breastwall joints, dense Zirconite Bricks block upward alkali penetration. In combustion zones, Chrome-Zirconia-Mullite Brick and Chrome Corundum burner blocks ensure gas port stability against flame scour and thermal shock. Lightweight Silica Bricks provide essential arch insulation.



三抗砖
Chrome-Zirconia-Mullite Brick



锆英石喧角砖
Zircon Brick



刚玉莫来石砖
Corundum Mullite Brick



烧结AZS砖
Sintered AZS Brick



硅砖
Silica Brick



轻质硅砖
Lightweight Silica Brick

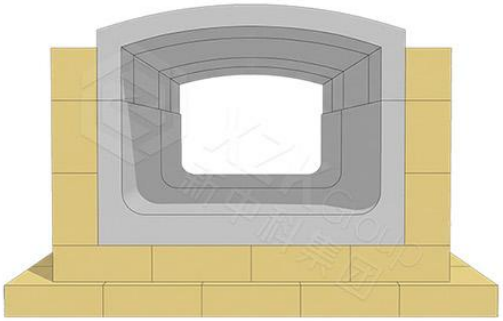
料道配置系统
FOREHEARTH

新中科解法

新中科保障玻璃液绝对纯净。高纯99刚玉砖与烧结AZS砖不仅抗侵蚀性能优异，更彻底杜绝渗出与鼓泡。顶部硅线石与莫来石盖板砖极具抗热震性，有效防止剥落污染，确保零缺陷成型。

THE XZK SOLUTION

XZK ensures absolute melt purity. High-purity 99% Alumina and Sintered AZS channel blocks eliminate exudation and blistering, offering superior anti-erosion performance. Above the melt, Sillimanite and Mullite cover blocks provide exceptional thermal shock resistance to prevent structural peeling and ensure a zero-defect environment.



料道：
FOREHEARTH

- XZK-CM 刚玉莫来石砖 / Corundum Mullite Brick
- XZK-99AL 99氧化铝砖 / 99% Alumina Brick
- XZK-SAZS 烧结AZS砖 / Sintered AZS Brick
- XZK-SL 硅线石砖 / Sillimanite Brick



99氧化铝砖
99% Alumina Brick



烧结AZS 砖
Sintered AZS Brick



硅线石砖
Sillimanite Brick

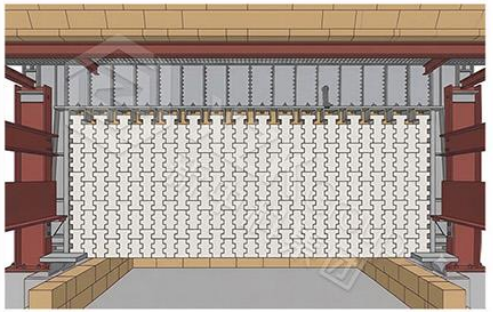
L吊墙、卡脖/流液洞吊墙
L-SUSPENDED WALL, WAIST & THROAT WALLS

新中科解法

新中科为极限温度梯度构筑安全悬挂结构。L吊墙组合使用锆莫来石、电熔砖与硅砖，兼顾结构稳定与卓越的抗侵蚀性能。流液洞吊墙部署高性能刚玉莫来石砖，以出色的抗蠕变与抗碱能力保障长期悬挂安全。

THE XZK SOLUTION

XZK engineers secure structures for extreme thermal gradients. The L-suspended wall uses a robust mix of Zircon Mullite, Fused Cast, and Silica bricks for excellent anti-erosion performance. For the throat wall, Corundum Mullite bricks deliver superior creep resistance and alkali defense, ensuring long-term hanging stability.



L吊墙 / L-SUSPENDED WALL

- XZK-ZM 锆莫来石砖 / Zircon Mullite Brick
- XZK-CM 刚玉莫来石砖 / Corundum Mullite Brick
- XZK-FS 熔融石英砖 / Fused Silica Brick

流液洞吊墙 / THROAT WALL

- XZK-CM 刚玉莫来石砖
  Corundum Mullite Brick



锆莫来石砖
Zircon Mullite Brick



熔融石英砖
Fused Silica Brick



刚玉莫来石砖
Corundum Mullite Brick

核心产品指标

烧结AZS砖 SINTERED AZS BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-SAZS30
Al_2O_3 (%) ≥	48
ZrO_2 (%) ≥	30
Fe_2O_3 (%) ≤	0.5
体积密度【Bulk Density】(g/cm^3) ≥	3.2
显气孔率【Apparent Porosity】(%) ≤	17
常温耐压强度【Cold Crushing Strength】(MPa) ≥	90
荷重软化温度【Refractoriness Under Load】(0.2MPa, T0.6, °C) ≥	1620

锆英石砖 ZIRCON BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-ZR65-A (骨料型Aggregate)	XZK-ZR65-B (普通型Ordinary)
ZrO_2 (%) ≥	65	65
SiO_2 (%) ≤	33	33
Fe_2O_3 (%) ≤	0.2	0.2
体积密度【Bulk Density】(g/cm^3) ≥	3.80	3.75
显气孔率【Apparent Porosity】(%) ≤	17	17
常温耐压强度【Cold Crushing Strength】(MPa) ≥	100	80
荷重软化温度【Refractoriness Under Load】(0.2MPa, °C) ≥	1680	1650

铬刚玉砖 CHROME CORUNDUM BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-CC10	XZK-CC12	XZK-CC15	XZK-CC30
Al_2O_3 (%) ≥	83.0	80.0	78.0	62.0
Cr_2O_3 (%) ≥	10.0	12.0	14.5	30.0
Fe_2O_3(%) ≤	0.3	0.3	0.3	0.3
体积密度【Bulk Density】(g/cm^3) ≥	3.25	3.25	3.25	3.40
显气孔率【Apparent Porosity】(%) ≤	17	17	17	17
常温耐压强度【Cold Crushing Strength】(MPa) ≥	100	100	100	100
荷重软化温度【Refractoriness Under Load】(0.2MPa, °C) ≥	1700	1700	1700	1700
热震稳定性 (950°C 空冷, 次)【Thermal Shock Resistance (950°C air-cooled, cycles)】≥	12	12	12	-

TECHNICAL PROPERTIES

熔铸AZS砖 FUSED AZS BRICK【33#/36#/41#】

理化指标【TECHNICAL PROPERTIES】	XZK-FAZS33	XZK-FAZS36	XZK-FAZS41
Al_2O_3 (%) ≥	50.0	48.0	45.0
ZrO_2 (%) ≥	32.5	36.0	41.0
SiO_2 (%) ≤	14.0	14	13.0
Na_2O (%) ≤	1.5	1.4	1.3
体积密度【Bulk Density】(致密部分) (g/cm^3) ≥	3.75	3.80	3.95
容重【Bulk Density】(PT/QX, g/cm^3)	3.4	/	/
容重【Bulk Density】(MS/ZWS, g/cm^3)	3.6	3.7	3.85
容重【Bulk Density】(WS, g/cm^3)	3.7	3.75	3.9
常温耐压强度【Cold Crushing Strength】(MPa) ≥	300	300	300
荷重软化温度【Refractoriness Under Load】T0.5 (°C) ≥	1700	1700	1700
玻璃相渗出量【glass phase exudation】(%)/1500°C×16h ≤	2.0	3.0	2.5

三抗砖 CHROME-ZIRCONIA-MULLITE BRICK

理化指标【TECHNICAL PROPERTIES】	三抗砖【XZK-3R】
Al_2O_3 (%) ≥	70
Cr_2O_3 (%) ≥	10
ZrO_2 (%) ≥	7
Fe_2O_3 (%) ≤	0.3
体积密度【Bulk Density】(g/cm^3) ≥	3.3
显气孔率【Apparent Porosity】(%) ≤	17
常温耐压强度【Cold Crushing Strength】(MPa) ≥	100
荷重软化温度【Refractoriness Under Load】(0.2MPa, °C) ≥	1700
热震稳定性 (1100°C 水冷, 次)【Thermal Shock Resistance (1100°C water-cooled, cycles)】≥	10

核心产品指标

TECHNICAL PROPERTIES

莫来石砖 MULLITE BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-ML70-A【机压Pressed】	XZK-ML70-B【机压Pressed】	XZK-ML65-C【浇注大砖Cast Block】
Al_2O_3 (%) ≥	70	70	65
Fe_2O_3 (%) ≤	1.2	0.2	0.8
体积密度【Bulk Density】(g/cm^3) ≥	2.55	2.65	2.50
显气孔率【Apparent Porosity】(%) ≤	18	17	17
常温耐压强度【Cold Crushing Strength】(MPa) ≥	80	80	75
荷重软化温度【Refractoriness Under Load】(0.2MPa, ℃) ≥	1620	1700	1600

锆莫来石砖 ZIRCON MULLITE BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-ZM6	XZK-ZM12	XZK-ZM20	XZK-ZM30
ZrO_2 (%) ≥	6.0	12.0	20.0	30.0
SiO_2 (%) ≥	65.0	60.0	58.0	48.0
Fe_2O_3 (%) ≤	0.2	0.2	0.2	0.2
体积密度【Bulk Density】(g/cm^3) ≥	2.8	2.9	3.1	3.3
显气孔率【Apparent Porosity】(%) ≤	17	17	17	17
常温耐压强度【Cold Crushing Strength】(MPa) ≥	80	80	80	80
荷重软化温度【Refractoriness Under Load】(0.2MPa, ℃) ≥	1680	1680	1680	1680

刚玉莫来石砖 CORUNDUM MULLITE BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-CM80	XZK-CM85	XZK-CM90
Al_2O_3 (%) ≥	80	85	90
Fe_2O_3 (%) ≤	0.15	0.20	0.20
体积密度【Bulk Density】(g/cm^3) ≥	2.75	2.90	3.00
显气孔率【Apparent Porosity】(%) ≤	18	17	17
常温耐压强度【Cold Crushing Strength】(MPa) ≥	85	90	90
荷重软化温度【Refractoriness Under Load】(0.2MPa, ℃) ≥	1700	1700	1700
蠕变率【Creep Rate】(1500℃ × 5-50h, %) ≤	0.3	0.3	-
热震稳定性 (1100℃ 水冷, 次)【Thermal Shock Resistance (1100℃ water-cooled, cycles)】≥	7	15	-

硅线石砖 SILLIMANITE BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-SL57-P (机压Pressed)	XZK-SL60-P (机压Pressed)	XZK-SL65-P (机压Pressed)	XZK-SL60-C (浇注Cast)
Al_2O_3 (%) ≥	57.0	60.0	65.0	60.0
Fe_2O_3 (%) ≤	1.2	1.0	1.0	1.0
体积密度【Bulk Density】(g/cm^3) ≥	2.40	2.45	2.50	2.45
显气孔率【Apparent Porosity】(%) ≤	18	18	17	18
常温耐压强度【Cold Crushing Strength】(MPa) ≥	70	70	70	60
荷重软化温度【Refractoriness Under Load】(0.2MPa, ℃) ≥	1560	1580	1650	1550
热震稳定性 (1100℃ 水冷, 次)【Thermal Shock Resistance (1100℃ water-cooled, cycles)】≥	25	20	15	25

红柱石砖 ANDALUSITE BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-AND69	XZK-AND65	XZK-AND61	XZK-AND57	XZK-AND53	XZK-AND49
Al_2O_3 (%) ≥	69	65	61	57	53	49
Fe_2O_3 (%) ≤	1.5	1.5	1.5	1.5	1.5	1.5
显气孔率【Apparent Porosity】(%) ≤	20	20	20	22	22	22
体积密度【Bulk Density】(g/cm^3) ≥	2.4	2.4	2.4	2.3	2.3	2.3
常温耐压强度【Cold Crushing Strength】(MPa) ≥	50	50	50	40	40	40
蠕变率【Creep Rate】(1500℃ × 5-50h, %)	1550℃ ≤ 0.8	1500℃ ≤ 0.8	1450℃ ≤ 0.8	1400℃ ≤ 0.8	1350℃ ≤ 0.8	1300℃ ≤ 0.8
荷重软化温度【Refractoriness Under Load】(0.2MPa, ℃) ≥	1700	1700	1650	1600	1520	1450

熔融石英砖 FUSED SILICA BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-FS98-P (Pressed机压)	XZK-FS97-C (Cast浇注)
SiO_2 (%) ≥	98	97
Al_2O_3 (%) ≤	0.3	0.4
体积密度【Bulk Density】(g/cm^3) ≥	1.90	1.86
显气孔率【Apparent Porosity】(%) ≤	18	19
常温耐压强度【Cold Crushing Strength】(MPa) ≥	45	40
荷重软化温度【Refractoriness Under Load】(0.2MPa, ℃) ≥	1650	1600
热震稳定性 (1100℃ 水冷, 次)【Thermal Shock Resistance (1100℃ water-cooled, cycles)】≥	30	30

核心产品指标

刚玉 / 氧化铝砖 Corundum & Alumina Brick

理化指标【TECHNICAL PROPERTIES】	XZK-CR95	XZK-99AL
Al_2O_3 (%) ≥	95	99
Fe_2O_3 (%) ≤	0.3	0.3
体积密度【Bulk Density】(g/cm^3) ≥	3.15	3.20
显气孔率【Apparent Porosity】(%) ≤	18	17
常温耐压强度【Cold Crushing Strength】(MPa) ≥	90	80

高铝耐火砖 HIGH ALUMINA BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-SK36	XZK-SK37	XZK-SK38	XZK-SK40
Al_2O_3 (%) ≥	55	65	70	82
Fe_2O_3 (%) ≤	2.0	2.0	2.0	2.0
耐火度【Refractoriness】(SK 指标)	36	37	38	40
荷重软化温度【Refractoriness Under Load】(0.2MPa, ℃) ≥	1450	1480	1530	1550
体积密度【Bulk Density】(g/cm^3)	2.25 - 2.40	2.30 - 2.50	2.40 - 2.60	2.50 - 2.70
常温耐压强度【Cold Crushing Strength】(MPa) ≥	45	50	60	70

低气孔粘土砖 LOW POROSITY CLAY BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-DN12	XZK-DN15
Al_2O_3 (%) ≥	45	45
Fe_2O_3 (%) ≤	1.2	1.5
显气孔率【Apparent Porosity】(%) ≤	12	15
常温耐压强度【Cold Crushing Strength】(MPa) ≥	60	50
荷重软化温度【Refractoriness Under Load】(0.2MPa, ℃) ≥	1470	1450

轻质粘土保温砖 CLAY INSULATING BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-LC135-1.3	XZK-LC135-1.0	XZK-LC125-0.8	XZK-LC120-0.6
体积密度【Bulk Density】(g/cm^3) ≤	1.3	1.0	0.8	0.6
常温耐压强度【Cold Crushing Strength】(MPa) ≥	8.0	4.0	3.0	1.5
导热系数【Thermal Conductivity】(350℃, W/(m·K)) ≤	0.55	0.40	0.35	0.25

TECHNICAL PROPERTIES

莫来石聚轻保温砖 MULLITE INSULATING BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-JM23	XZK-JM26	XZK-JM28	XZK-JM30
Al_2O_3 (%) ≥	42	45	54	72
Fe_2O_3 (%) ≤	1.2	1.0	0.9	0.55
体积密度【Bulk Density】(g/cm^3)	0.6	0.8	0.7	1.1
常温耐压强度【Cold Crushing Strength】(MPa) ≥	1.5	2.3	2.0	3.5
导热系数【Thermal Conductivity】(350℃, W/(m·K)) ≤	0.19	0.24	0.21	0.43

氧化铝空心球砖 ALUMINA BUBBLE BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-AB90	XZK-AB93	XZK-AB95	XZK-AB99
Al_2O_3 (%) ≥	90	93	95	99
Fe_2O_3 (%) ≤	0.5	0.4	0.2	0.1
体积密度【Bulk Density】(g/cm^3) ≤	1.35	1.40	1.60	1.70
常温耐压强度【Cold Crushing Strength】(MPa) ≥	8	12	18	20
荷重软化开始温度【Refractoriness Under Load】(0.1MPa, ℃) ≥	1650	1680	1700	1700

轻质高铝保温砖 HIGH ALUMINA INSULATING BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-LI140-1.2	XZK-LI140-1.0	XZK-LI140-0.8	XZK-LI140-0.6
Al_2O_3 (%) ≥	48	48	48	48
体积密度【Bulk Density】(g/cm^3) ≤	1.2	1.0	0.8	0.6
常温耐压强度【Cold Crushing Strength】(MPa) ≥	8.0	3.0	2.5	1.5
导热系数【Thermal Conductivity】(350℃, W/(m·K)) ≤	0.50	0.40	0.35	0.25

轻质硅砖 LIGHTWEIGHT SILICA BRICK

理化指标【TECHNICAL PROPERTIES】	XZK-LS160-0.8	XZK-LS162-1.0	XZK-LS164-1.2
SiO_2 (%) ≥	91	91	91
Al_2O_3 (%) ≤	1.0	1.0	1.0
体积密度【Bulk Density】(g/cm^3) ≤	0.8	1.0	1.2
常温耐压强度【Cold Crushing Strength】(MPa) ≥	2.0	3.0	4.0
荷重软化开始温度【Refractoriness Under Load】】(℃) ≥	1600	1620	1640

施工案例

见证每一次高标准交付

大碹
CROWN




大碹角
CROWN CORNER




天然气烧嘴
GAS BURNER




池底铺底
TANK BOTTOM




PROJECT REFERENCES

Delivering High-Temperature Reliability

加料池
DOGHOUSE





吊墙
SUSPENDED WALL




蓄热室
REGENERATOR





炉条喧
RIDER ARCH






料道
FOREHEARTH





合作伙伴

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