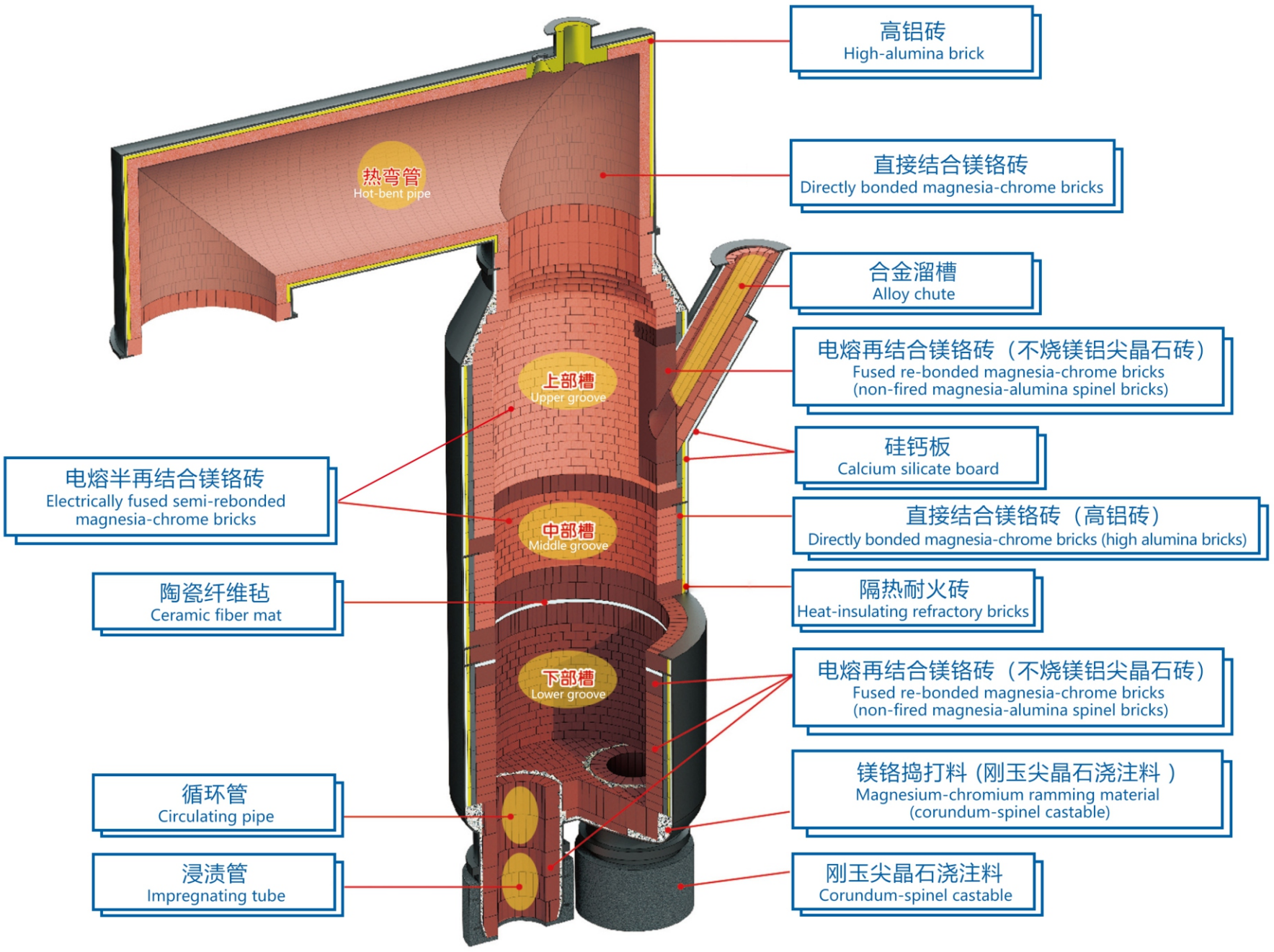
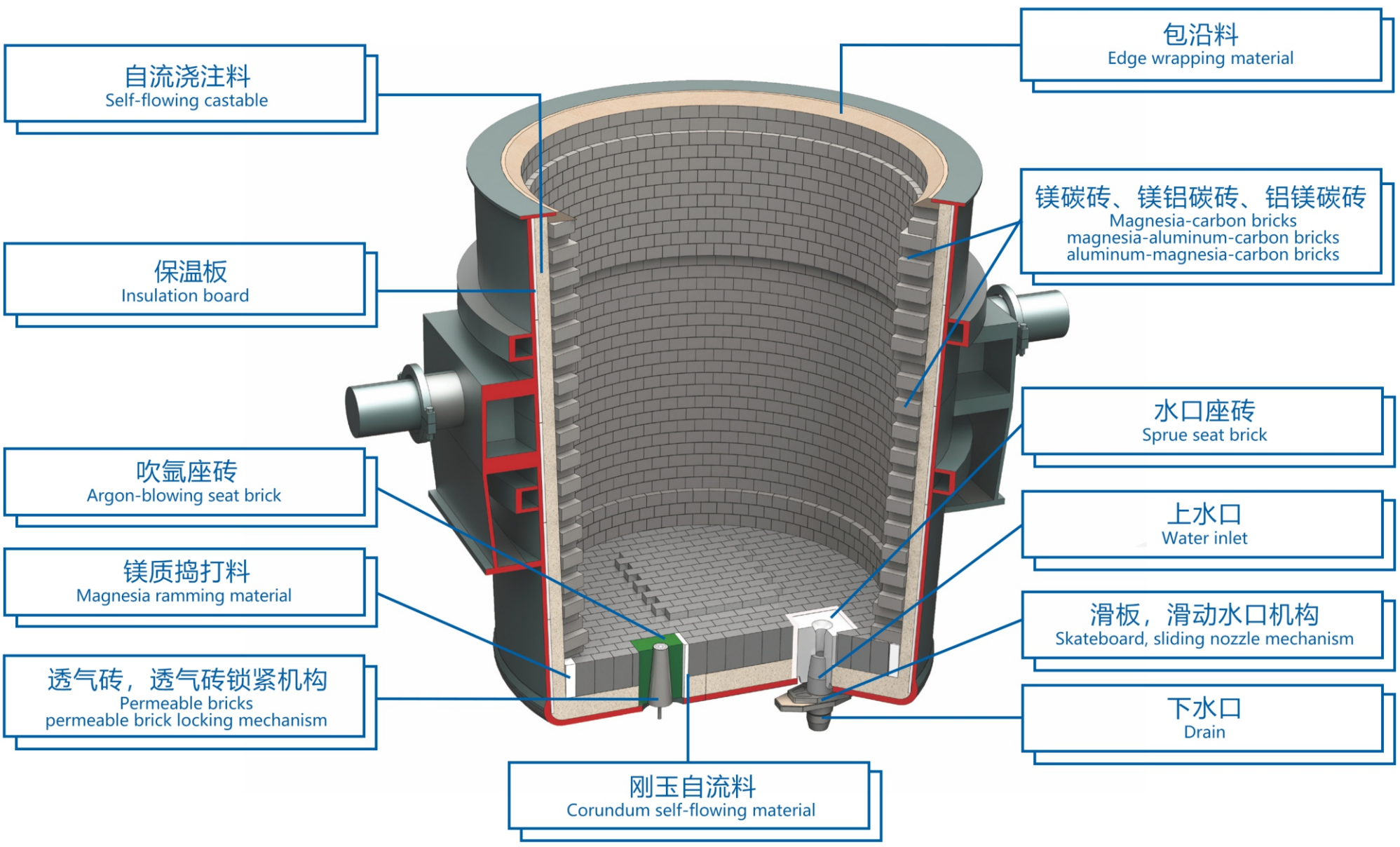
RH炉用耐火材料配置建议
Suggestions for the configuration of refractory materials for RH furnaces



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普碳钢包耐火材料配置建议
Suggestion on the configuration of refractory materials for ordinary carbon steel ladles



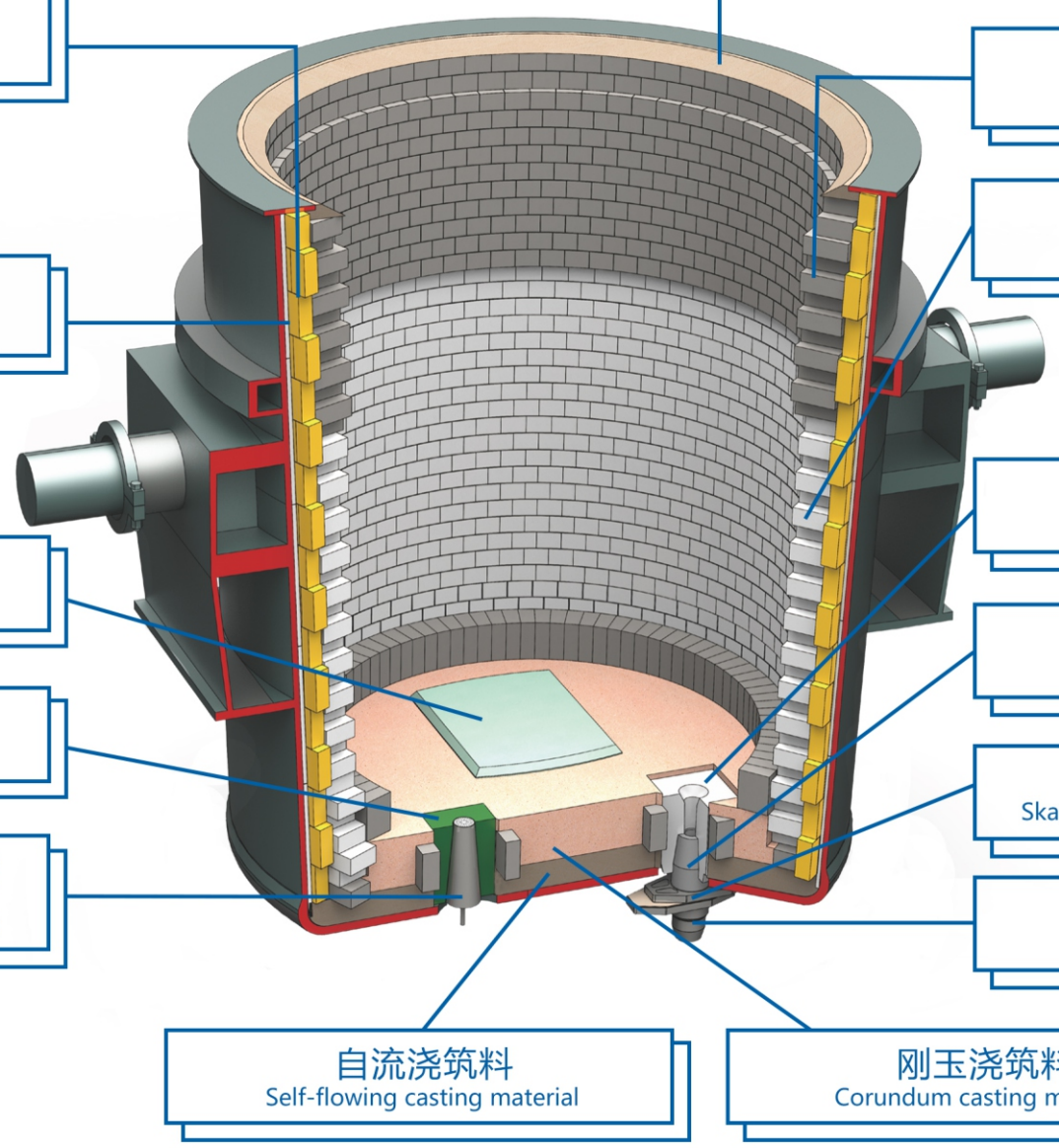
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窑炉长寿在内衬　长寿内衬在华威

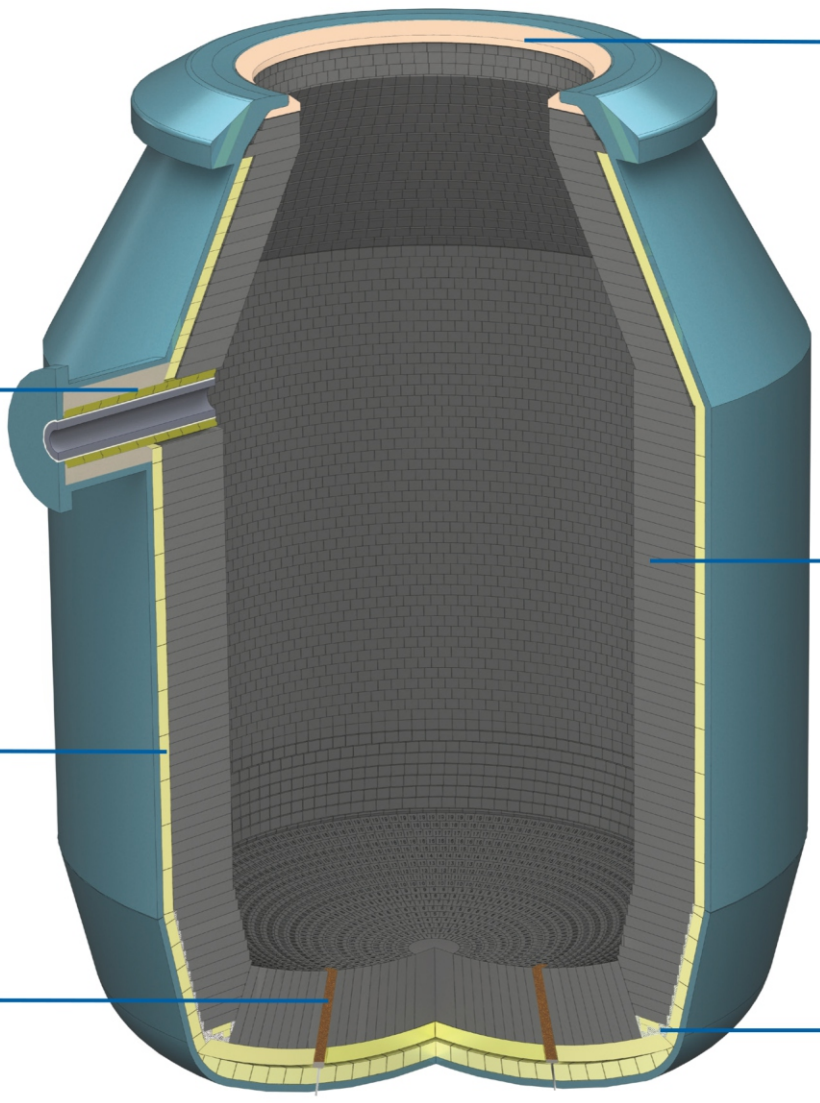
无碳钢包耐火材料配置建议
Recommendations for the configuration of refractory materials for carbon free steel ladles



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转炉耐火材料配置示意图
Schematic diagram of refractories configuration for BOF



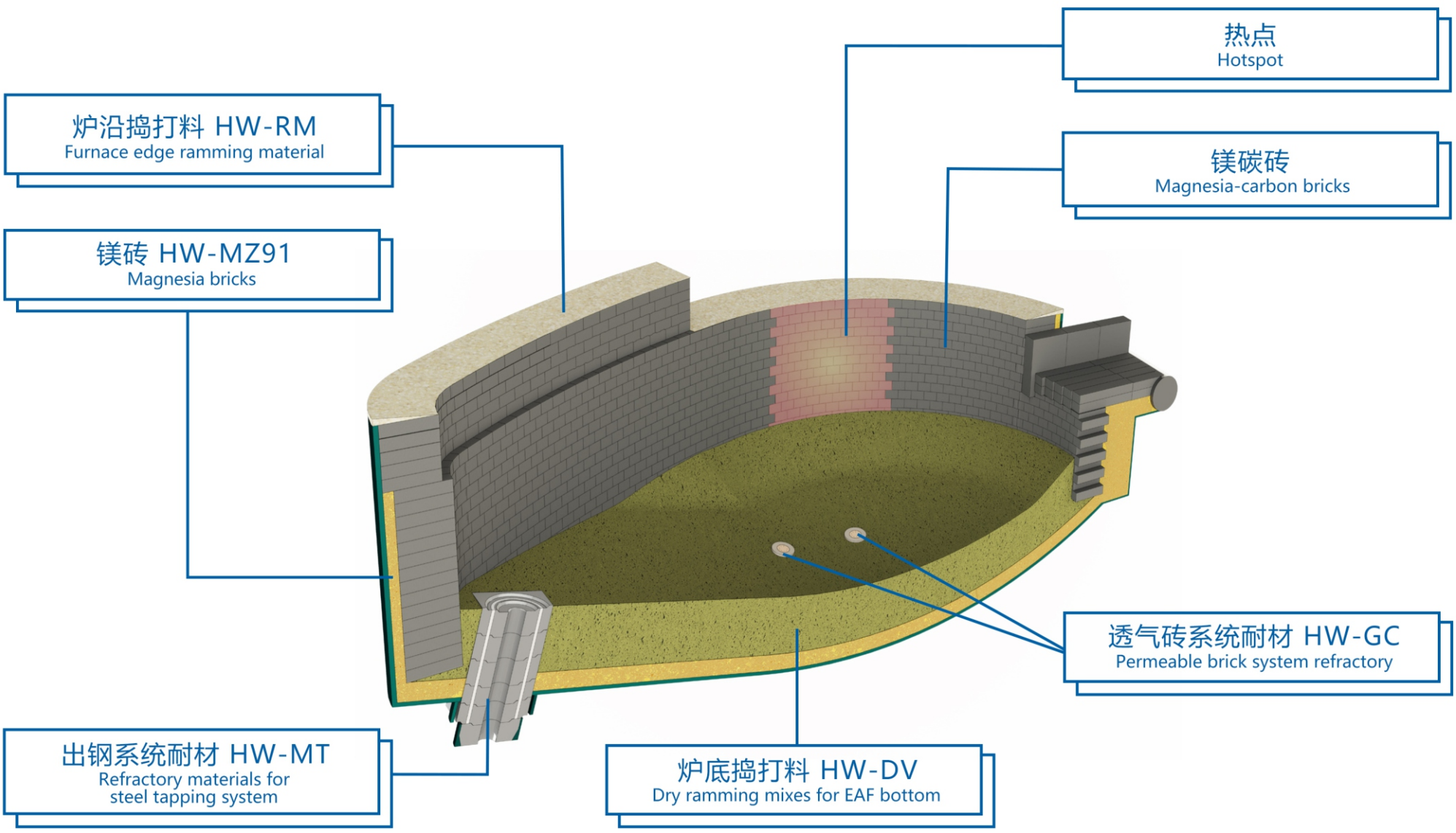
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电炉耐火材料配置示意图
Schematic diagram of refractories configuration for EAF



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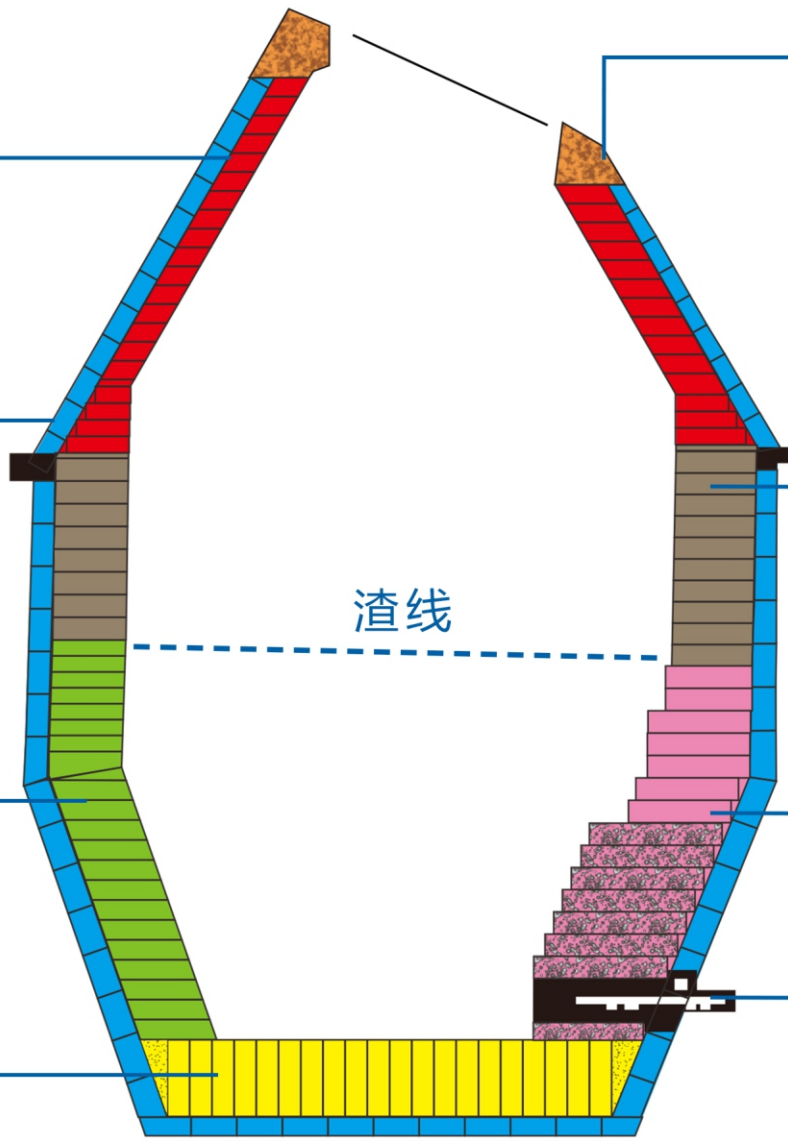


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窑炉长寿在内衬　长寿内衬在华威

AOD炉用耐火材料配置建议

Suggestions for the configuration of refractory materials for AOD furnaces



炉帽
Furnace cap
(直接结合镁铬砖、镁钙砖)
HWZMGe-16A\18A HWMCa-15B\20B\25B
Directly combining magnesia chrome brick
Magnesia calcium brick

炉体
Furnace body
(直接结合镁铬砖、高铝砖、镁钙砖)
HWZMGe-8A\12A\16A\18A HWLZ-75\65
HWMCa-15B\20B
Directly combining magnesia chrome brick
Magnesia calcium brick

下锥体
Lower cone
(电熔再结合镁铬砖、镁钙砖)
HWFRMGe-18A\20A\22A HWMCa-20A\25A
Electrically fused and re-bonded magnesia-chrome bricks\Magnesia calcium brick

炉底
Bottom of the furnace
(电熔再结合镁铬砖、镁钙砖)
HWFRMGe-18A\20A\22A HWMCa-20A\25A
Electrically fused and re-bonded magnesia-chrome bricks\Magnesia calcium brick

炉口
Furnace mouth
镁铬捣打料HWMGe-18 / 20
Magnesium chromium ramming material

炉身
Furnace body
(电熔半再结合镁铬砖、镁钙砖)
HWSRMGe-16A\18A\20A HWMCa-15A\20A
Electrically fused semi-rebonded magnesia-chrome bricks\Magnesia calcium brick

风口面
Furnace body
(电熔再结合镁铬砖、镁钙砖)
HWFRMGe-20A\22A\26A\30A HWMCa-25A\30A\40A
Electrically fused and re-bonded magnesia-chrome bricks\Magnesia calcium brick

风口
Air outlet surface
(电熔再结合镁铬砖、镁钙砖)
HWFRMGe-26A\30A HWMCa-30A\40A
Electrically fused and re-bonded magnesia-chrome bricks\Magnesia calcium brick

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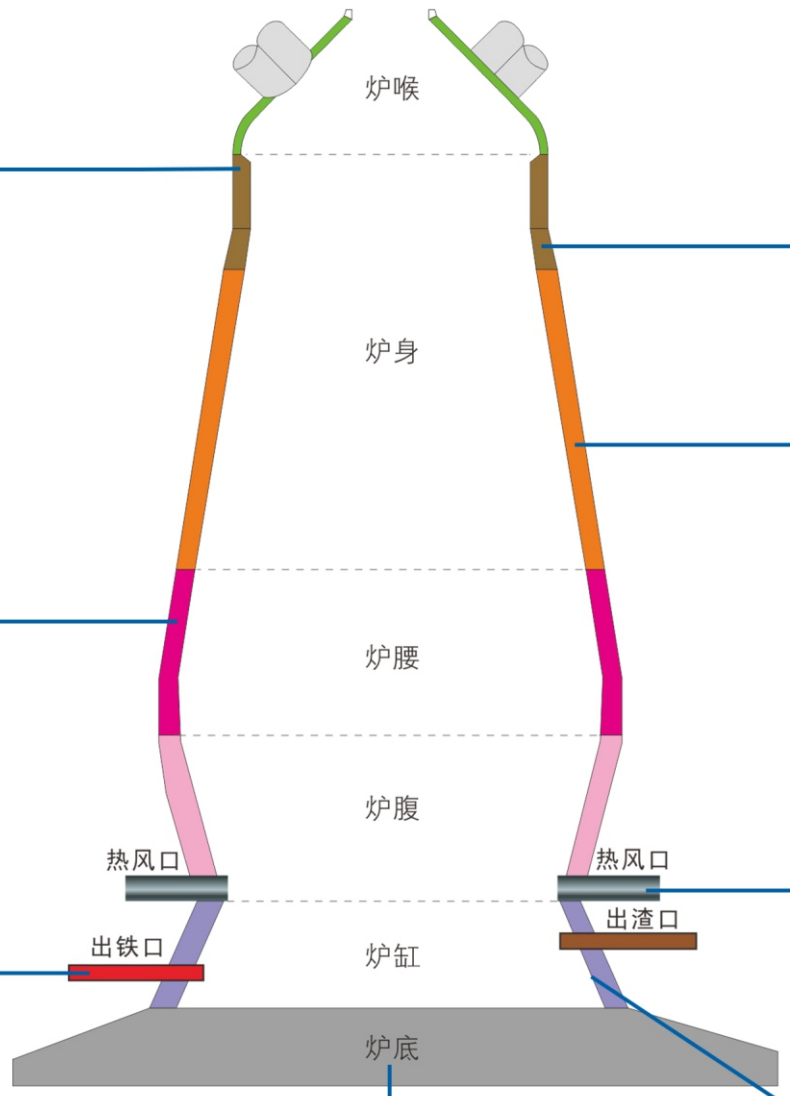
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窑炉长寿在内衬　长寿内衬在华威

高炉用耐火材料建议配置
Suggested configuration of refractory materials for blast furnaces



炉喉钢砖下部
Under the steel bricks of the furnace throat
硅线石砖/水冷板/水冷壁
Sillimanite bricks, water-cooled plates
water-cooled walls

炉腹、炉腰
Magnesia bricks
刚玉砖/石墨砖
Corundum brick/graphite brick
镶β-Al_2O_3结合SiC砖
Insert β-Al2O3 bonded SiC bricks
Sialon结合刚玉砖
Sialon-bonded corundum bricks

出铁口
Iron outlet
硅线石砖/ASC砖
Sillimanite brick /ASC brick
热压小块碳砖/微孔铝碳砖
Hot-pressed small carbon bricks
Microporous aluminum-carbon brick

炉底-大块碳砖
Furnace bottom - Large carbon bricks

炉身上部
Upper part of the furnace body
致密粘土砖/镶Si_3N_4结合SiC砖
Dense clay bricks/Si3N4-bonded SiC bricks
硅线石砖
Sillimanite brick

炉身下部、中部
The lower and middle parts of the furnace body
刚玉砖/石墨砖+Sialon结合SiC砖
Corundum brick
graphite brick+Sialon-bonded SiC brick
镶堇青石结合硅线石砖
Cordierite combined with sillimanite bricks
Sialon结合SiC砖
Sialon-bonded SiC bricks

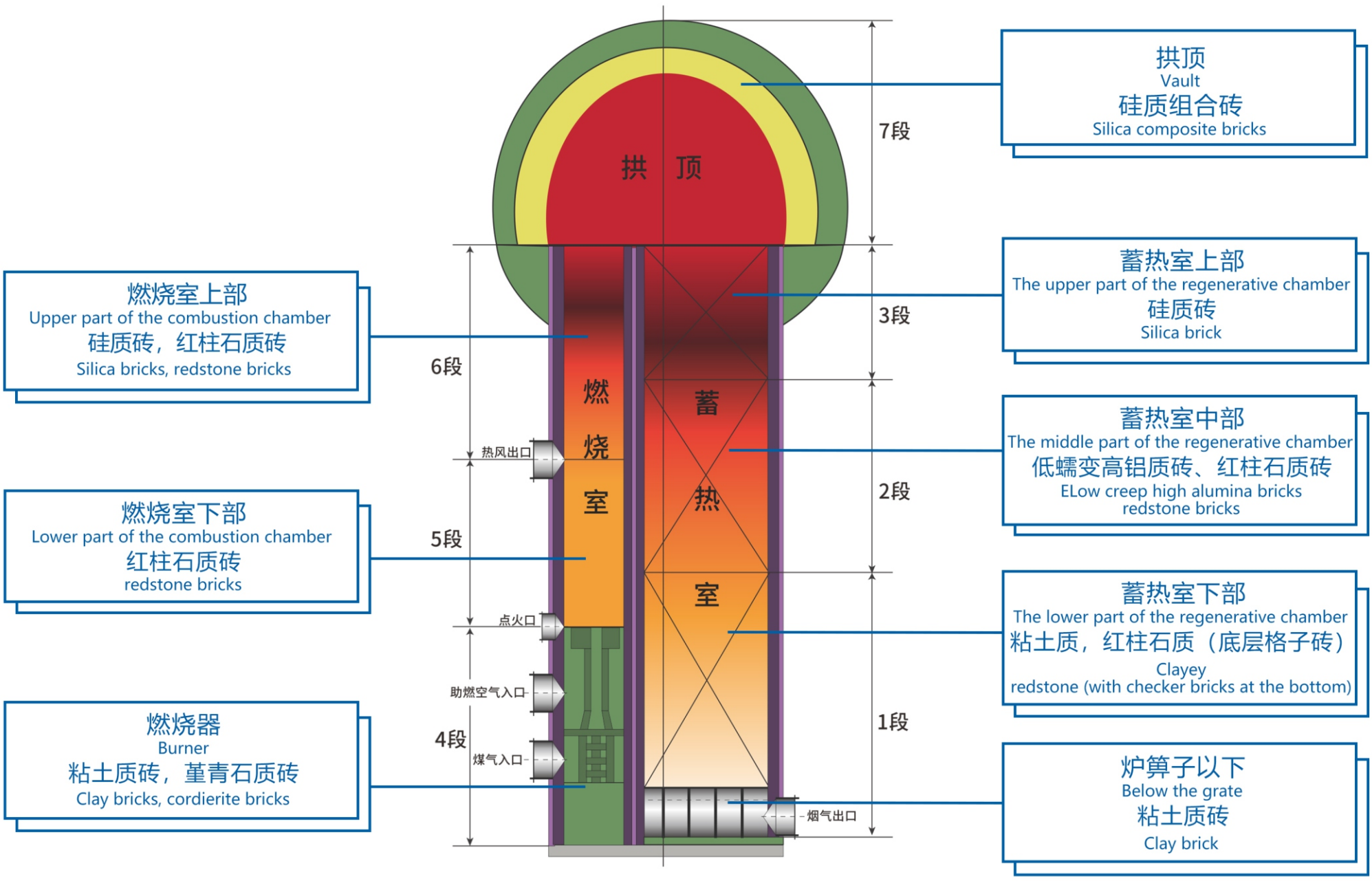
风口
Wind trend
硅线石砖/自结合SiC砖
Sillimanite brick/self-bonding SiC brick
热压小块碳砖/刚玉预制块
Hot-pressed small carbon bricks
corundum prefabricated blocks

炉缸
Furnace cylinder
大块碳砖/热压小块碳砖
Large carbon bricks/hot-pressed small bricks
大块碳砖 + 陶瓷杯
Large carbon bricks + ceramic cups

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内燃式热风炉用耐火材料配置
Refractory material configuration for internal combustion hot blast stoves



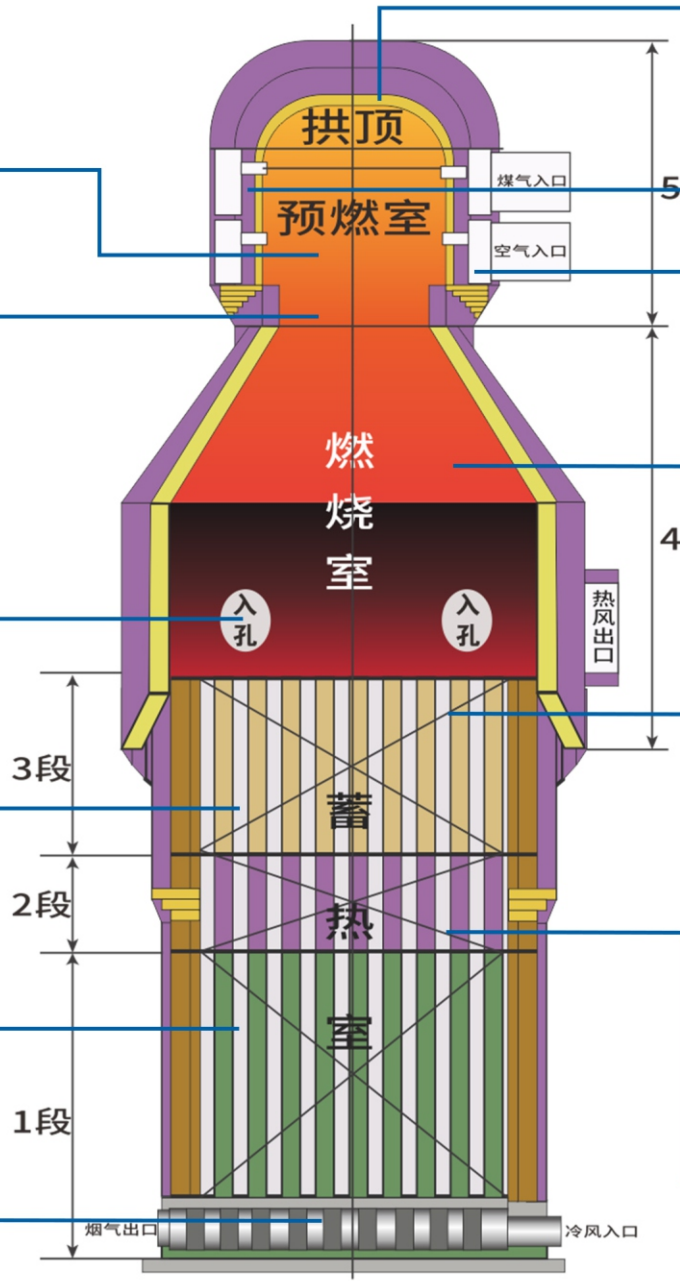
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顶燃式热风炉用耐火材料配置
Configuration of refractory materials for top combustion hot blast furnaces



顶燃室迷宫砖
Top burning chamber maze bricks
低蠕变粘土质
Low creep clay

喉管
Burner
红柱石质，抗热震高铝质
Red column stone
thermal shock-resistant high alumina

入孔、热风出口
Inlet, hot air outlet
低蠕变高铝质，红柱石质
Low creep high alumina, redstone

蓄热室上部
The upper part of the regenerative chamber
低蠕变高铝质，红柱石质
Low creep high alumina, redstone

蓄热室下部
The lower part of the regenerative chamber
粘土质，低蠕变高铝或红柱石质
Clayey, low creep high alumina or redstone

炉箅子以下-粘土质砖
Below the grate-Clay brick

侧墙工作层及球顶
Side wall working layer and ball top
抗热震高铝质，红柱石质
Thermal shock-resistant high alumina, redstone
堇青石-莫来石质
Cordierite - mullite

顶燃室中外层
The outer layer of the top combustion chamber
抗热震高铝质，抗热震粘土质
Thermal shock-resistant high alumina, thermal
堇青石-莫来石质
shock-resistant clay，Cordierite - mullite

空气、煤气入口
The dome of the combustion chamber
抗热震高铝质，抗热震粘土质
Thermal shock-resistant high alumina
thermal shock-resistant clay

燃烧室拱顶
The dome of the combustion chamber
硅质，低蠕变高铝质，红柱石质
Siliceous, low creep high alumina, redstone

迷宫砖-低蠕变粘土质
Maze brick-Low creep clayey

蓄热室中部
The middle part of the regenerative chamber
低蠕变粘土质，高铝质，红柱石质
Low creep clayey, high alumina, redstone

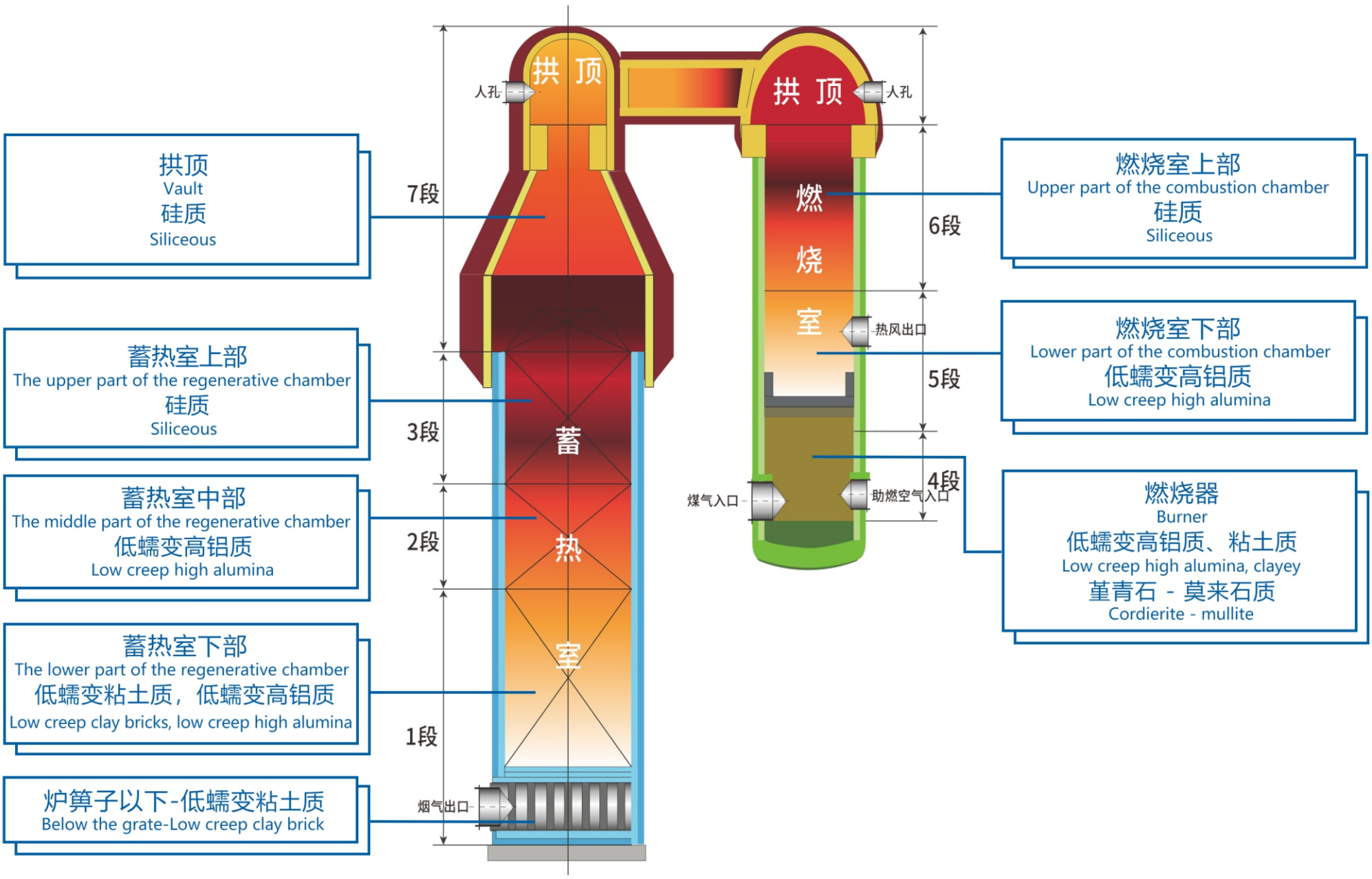
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窑炉长寿在内衬　长寿内衬在华威

外燃式热风炉用耐火材料配置
Configuration of refractory materials for external combustion hot blast furnaces



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