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## PRODUITS OU MACHINES

### Recommendations for Regenerator of Glass Tank:

(The recommendations aim to give you a general idea of our bricks. The actual application shall be based on specific condition of the glass tank.)

#### Top Layers

The uppermost 2 to 4 checker layers are confronted with highest temperature, attacked by batch dust and vanadiumoxide from heavy oil, and suffering strong chemical erosion. QMZR-12, a high temperature Magnesia-zirconia brick, with characters of Low A.P., high B.D and good corrosion resistance, is recommended.

#### Hot zone:

Suffering severe stress by high temperature, Fused Magnesia bricks (QDMZ-98 or QDMZ-97) are recommended for this area, with proven good performance and not easily cracking or spalling.

#### Intermediate zone:

This area has less dust erosion, but more strict attack of sulfate penetration, which requires strong resistances to high temperature and thermal shock.

Recommendations: High quality Magnesite bricks (QDMZ-96, QMZ-97 or QMZ-95)

#### Lower zone:

This zone has lower flue gas temperature, but seriously affected by volatile components and complex sulfate condensation (alkali sulfates composite) and thermal shock effects.

QMZR-12B, a lower-temperature magnesia-zirconia brick is suited for this area. The other options are QMZ-92, a high density magnesia brick; or QDMC-12, a direct bonded magnesia-chrome brick.

### Main Products

#### Magnesia-Zirconia Brick

Magnesia-Zirconia brick is characterized with high refractoriness, longer service life, and strong creep resistance. It has better corrosion resistance than magnesia-chrome brick, also better than rebonded magnesite brick for C.C.S at high temperature and thermal shock resistance. These brands are used in the top and intermediate zone for regenerator checker.

#### Magnesite Brick

Sintered brick is batched and fired with different types of heavy or dead-burned magnesia. The higher purity of raw material, the better specification. It is broadly used for regenerator of glass tank.

#### Fused Magnesite Brick

Fused magnesite brick is made from high-grade-high-purity magnesia together with fused magnesia, characterized with higher density, lower apparent porosity, bigger crystallized periclase, better creep resistance performance. It is broadly applied in the regenerator crown and upper part of wall.

#### Magnesia-Alumina Brick

Magnesia-alumina brick is made from high quality magnesia and bauxite. It has a better matrix within magnesia alumina spinel, good C.C.S at high temperature, and high thermal shock resistance. It is widely applied in the heat-sensitive zone of regenerator.

#### Light Forsterite Brick

Mainly using synthetical forsterite clinker as raw material, the Light forsterite brick has good insulation property and superior stability at high temperature. It is widely used in the insulation layer of regenerator wall.

#### Magnesia-Chrome Brick

With periclase and magnesia-chrome spinel as the main crystal phases, magnesia-chrome brick is made from sintered magnesia and chrome ore, and fired at optimum "sintering curve". They are widely used in regenerator of glass tank.

#### Mortar

Matched with diversity of bricks, Qinghua develops different range of Mortar, with corresponding grade of magnesia, and suitable binder. These brands have high adhensive strength, easy installing with setting time 120 seconds approximately, and high sintered strength. It performs well as the joint filler for brick lining of regenerator.

#### Ramming Mix

Ramming mix is made from high quality magnesia with adding a special chemical binder to batches. It is used for joint filling and lining of regenerator. During the hardening process, It forms "chemical-ceramic" change at suitable temperature. 5-7% water shall be added on operation.

#### Company Profile of **Qinghua Refractories Co.,Ltd**

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