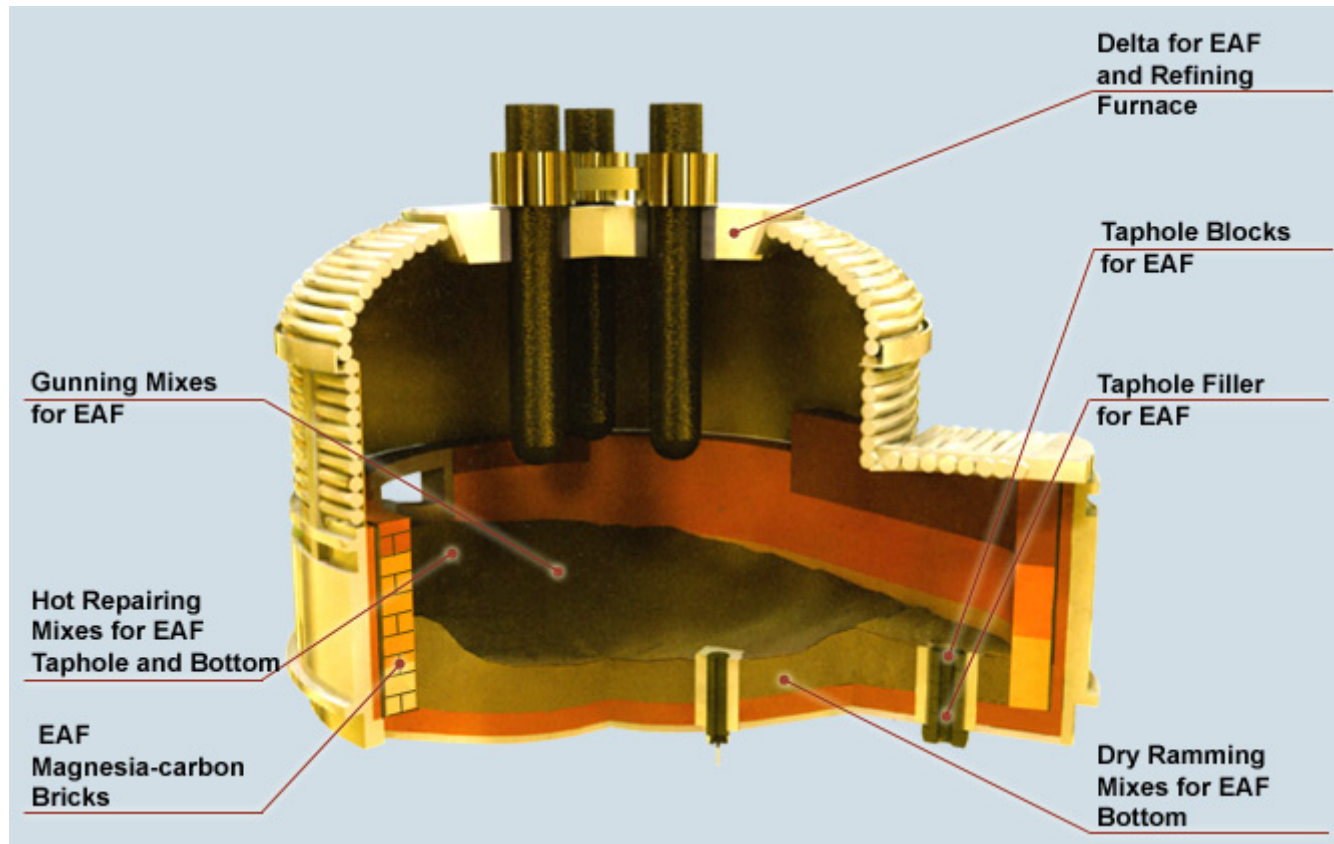


## Dalian Horton Co., Ltd. — Refractory Products for EAF



## Magnesia-carbon Bricks

On the basis of different application parts and conditions, using high-purity, high-density, large crystal magnesite and high-purity flake graphite as raw materials, adopting high-pressure shaping technique, and under the help of antioxidant, Horton supply series of magnesia-carbon bricks for EAF lining. The series of products have been widely used in steelworks worldwide. They show the features of high strength, excellent resistance against slag, good thermal shock resistance, high refractoriness etc., proving high performances.

MgO % Min.	97.5	97	95	97.5	96	97
Al <sub>2</sub> O <sub>3</sub> % Max.	0.1	0.2	0.2	0.1	0.2	0.2
CaO % Max.	1.0	1.0	1.6	1.0	1.0	1.0
Fe <sub>2</sub> O <sub>3</sub> % Max.	0.3	0.4	0.6	0.3	0.4	0.4
SiO <sub>2</sub> % Max.	0.4	0.6	1.2	0.4	0.8	0.6
C % Min.	10	10	10	14	14	12
Bulk Density g/cm <sup>3</sup> Min.	2.95	2.90	2.85	2.96	2.95	2.95
Apparent Porosity % Min.	4.0	5.0	5.0	4.0	5.0	5.0
Cold Crushing Strength MPa Min.	35	35	30	40	35	40

## Delta Sections

Modern EAFs usually have a cast core piece in the cover. Horton supplies monolithic delta pieces for different furnace types using casting mixes, specially designed for an extremely long lifetime. We supply these delta sections in our assembly parts plant either tailored to customer's specifications or according to our own design and prepare them with special drying curves for direct application. We also supply the required casting mixes and offer supervision of the lining work on customer's site by our technical field service.

Al <sub>2</sub> O <sub>3</sub> +MgO % Min.	80	80	90	
Al <sub>2</sub> O <sub>3</sub> +Cr <sub>2</sub> O <sub>3</sub> % Min.				88
Bulk Density g/cm <sup>3</sup> Min.	2.80	2.85	3.10	3.00
Modulus of Rupture MPa Min.	5	10	12	6
Cold Crushing Strength MPa. Min.	25	60	60	40
Application	EAF, LF	EAF, LF	EAF, LF	EAF, VD



## Taphole Blocks for EAF

Horton series of taphole are made from high purity fused magnesite or 98 large crystal magnesite, with special antioxidants and resin binder. Mono block taphole bricks are ISO-Pressed, while assembly taphole is formed by friction press. The series of products show good oxidization resistance, high strength, excellent erosion resistance, long life and easy of installation.

MgO % Min.		97.5	97.5	97.5	97.5
Al <sub>2</sub> O <sub>3</sub> %		0.1	0.1	0.1	0.1
Fe <sub>2</sub> O <sub>3</sub> %		0.3	0.3	0.3	0.3
CaO %		1.0	1.0	1.0	1.0
SiO <sub>2</sub> %		0.4	0.4	0.4	0.4
C %		10	14	10	14
Apparent Porosity % Max.		4	4	5	5
Bulk Density g/cm <sup>3</sup> Min.		2.95	2.92	2.95	2.92
Cold Crushing Strength MPa Min.		40	40	35	35
Hot Modulus of Rupture MPa Min.	1400°C x0.5h	12	10	12	10

