



**FUSED CORUNDUM BLOCK**

Physical and chemical index

Item		Behaviors
		TY-G98
Chemical Composition %	Al <sub>2</sub> O <sub>3</sub>	≥98.5
	SiO <sub>2</sub>	≤0.2
	Fe <sub>2</sub> O <sub>3</sub>	≤0.1
	CaO	≤1.2
	Na <sub>2</sub> O	-
	ZrO <sub>2</sub>	-
	Cr <sub>2</sub> O <sub>3</sub>	-
Apparent Prosdity (%)		≤17
Bulk Density g/cm <sup>3</sup>		≥3.2
Cold Crushing Strength Mpa		100
Modulus of Rupture at High Temperature 1250°C Mpa		≥9.5
Refractoriness °C		≥1850
0.2Mpa Refractoriness Under Load T0.6 °C		≥1680
Reheat liner change 1600°C×3h %		≤±0.2

**Main mineral component of corundum brick** is corundum phase, it has excellent physical property in high temperature, resistance to chemical corrosion. It is widely used in lining of ovens of petrochemical industry; bottom of steel rolling mill and in the second-stage converters of the 300000t ammonia synthesis furnaces, steel notch.

**Application:** Fused corundum block is mainly used in key parts of the industrial furnace that require high abrasion and temperature resistance, such as gliding rail bricks in steel pusher metallurgical



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furnaces, the tapping platform (tapping spout) style walking beam furnaces, and also as the interior for destructors.