

CCEWOOL® DECOR Series Corundum Brick

Description:

Corundum brick is a kind of high aluminum brick that is used in special industries. Al₂O₃ content can be traced back to using high purity synthetic corundum like white melted Al₂O₃ and sliced Al₂O₃. Special refractory clay, activated aluminum oxide and high purity SiO₂ are all included in formula of producing corundum brick. We fire bricks under high temperature.

Characteristics:

High compressive strength at room temperature;
High load softening temperature greater than 1700°C ;
Good chemical stability;
Good acid or alkaline slag resistant;
Strong metal and glass resistant.

Application:

Mainly used for blast furnace and blast furnace hot stove, steel refining furnace, glass melting furnace and petrochemical industry furnace.

Technical data and Size:

CCEWOOL® DECOR Series Corundum Brick									
Properties	Units	DECOR 90	DECOR 95	DECOR 90a	DECOR95a	DECOR 98	DECOR 99	C99E	
Density	(g/cm ³)	(3.00)	(3.10)	(3.20)	203 (3.26)	203 (3.26)	196 (3.15)	213 (3.41)	
Cold Crushing Strength	Psi MPa	11,500 80	13,300 92	14,300 100	14,600 103	11,700 82	13,000 90	17,000 117	
Creep, Load 0.2Mpa (28.4Psi) Temperature 1500°C (2732°F)	e25[%]	0.25	NA	NA	NA	NA	1.03	NA	
	s25-15[%]	NA	NA	NA	NA	NA	0.029	NA	
Thermal Shock Resistance DIN 51068 Part 1	Cycles	110	30+	30+	30+	30+	17	8	
Elevated Temperature Flexural Strength	Psi	At 1000°C (1832°F)	---	---	---	---	2500	---	
		At 1200°C (2192°F)	1875	---	2465	---	1450	2320	---
		At 1400°C (2552°F)	720	---	1520	---	1160	1160	---
		At 1500°C (2732°F)	575	1100	1220	1000	1230	580	2320
Chemical Analysis	%								
Al ₂ O ₃		> 90	95	90	95	98	>99	99.5	
SiO ₂		< 9.5	4.9	1.3	1.8	0.1	0.1	0.1	
ZrO ₂		---	---	3.5	3.6	1.8	---	---	
Fe ₂ O ₃		0.1	0.1	0.1	Trace	Trace	< 0.1	0.1	
TiO ₂		0.1	0.1	Trace	Trace	Trace	0.02	Trace	
CaO + MgO		0.1	0.1	0.1	0.2	0.2	0.04	0.1	
Na ₂ O + K ₂ O		< 0.2	0.1	0.1	0.2	0.15	< 0.2	0.1	
Cr ₂ O ₃		---	---	5.0	---	---	---	---	

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