



KUAN-HO REFRATORIES INDUSTRY CORPORATION

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THE QUALITY OF REFRATORIES FOR RH DE-GASSER FURNACE

Mostly, molten steel absorbs some impurities such as oxygen (O₂), hydrogen (H₂), moisture and carbon from air and raw materials from which the molten steel becomes flaking and brittle. Impurities in steel can be removed by a degassing installation in which the molten steel is exposed to vacuum or evacuated low pressure environment. The

damage of refractories of degassing unit is more serious at the leg and snorkel. We have developed the following refractories for RH-Degassing steel making. Especially, our direct-bonded magnesia-chrome bricks are used in China Steel Corporation (Taiwan) with satisfactory performance.

Typical Properties

Kind		Direct Bonded					
Brand		RH-1	RH-1F	RH-2	RH-2S	RH-2C	RH-2D
Properties							
Bulk Density(g/cm ³)		3.20	3.25	3.20	3.20	3.15	3.20
Chemical Composition (%)	MgO	60.0	61.2	58.0	60.1	60.0	58.0
	Cr ₂ O ₃	20.0	25.7	25.3	24.5	24.0	25.3
Cold Crushing Strength(Mpa)		55.0	47.1	42.8	50.0	38.7	50.4
Apparent Porosity(%)		15.5	16.3	16.7	16.5	17.3	16.9
Hot modulus rupture (Mpa) at 1400°C		6.9	7.8	5.8	6.0	5.0	5.1
Application		Lower part Snorkel	Low part Snorkel	Middle part Low Part Snorkel	Middle part Low Part Snorkel	Upper part Middle Part	Upper part Middle Part Alloy Chute
Characteristic		Spalling resistance Slag resistance	Slag resistance High hot strength	Spalling resistance Slag resistance	Spalling resistance Slag resistance		High strength
Remark		Super high temperature fired at 1850°C					

Kind		Semi rebonded					
Brand		SBD-1	SBD-1H	SBD-1HS	SBD-2	SBD-2H	SBD-2HS
Properties							
Bulk Density(g/cm ³)		3.25	3.30	3.30	3.20	3.25	3.25
Chemical Composition (%)	MgO	57.7	56.0	59.7	61.2	59.4	62.0
	Cr ₂ O ₃	27.6	28.7	26.7	23.1	24.0	22.2
Cold Crushing Strength(Mpa)		78.5	75.5	84.7	64.2	65.0	55.2
Apparent Porosity(%)		15.1	15.5	13.5	15.8	14.5	15.9
Hot modulus rupture (Mpa) at 1400°C		9.5	10.6	12.1	8.9	9.1	9.4
Application		Low Part	Low Part	Low Part	Low Part	Low Part	Low Part
Characteristic		High hot strength Slag resistance	Slag resistance High hot strength	Slag resistance High hot strength	Spalling resistance	High hot strength	High hot strength
Remark		Super high temperature fired at 1850°C with fused magnesia-chrome clinker					