
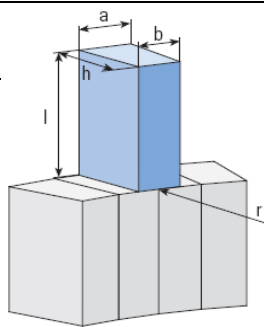


Date: 99/04/29 Rev.: 00		Material Specification for EAF Brick-45/90		 IRAN ALLOY STEEL CO.																															
ID code:N-065989.Y		Area: EAF Brick		Storage site:PU 17																															
General properties																																			
Basic Components:Magnesia-Carbon			Bonding System:Resin bonded																																
Classification: Fused Magnesia																																			
Chemical composition (wt. %) : <table border="0"> <tr> <td>MgO</td> <td>Min 97.0</td> </tr> <tr> <td>CaO</td> <td>Max 2</td> </tr> <tr> <td>SiO₂</td> <td>Max 0.8</td> </tr> <tr> <td>Al₂O₃</td> <td>Max 1.5</td> </tr> <tr> <td>Fe₂O₃</td> <td>Max 1</td> </tr> <tr> <td>C</td> <td>Min 10</td> </tr> </table>			MgO	Min 97.0	CaO	Max 2	SiO ₂	Max 0.8	Al ₂ O ₃	Max 1.5	Fe ₂ O ₃	Max 1	C	Min 10	Fig./Size 																				
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			a=195 b=105 h=450 l=100 r=0																																
Sieve analysis /Dimension:- Physical properties : - <table border="0"> <tr> <td>Bulk Density</td> <td>g/cm³</td> <td>Min 3.0</td> </tr> <tr> <td>Appearance Porosity</td> <td>%</td> <td>Max 5</td> </tr> </table> Mechanical/Thermal properties: <table border="0"> <tr> <td>Permanent Linear Change</td> <td>%</td> <td>-</td> </tr> <tr> <td>Cold Crushing Strenght</td> <td>kg/cm²</td> <td>Min 300</td> </tr> <tr> <td>Refractoriness Under Load</td> <td>°C</td> <td>-</td> </tr> <tr> <td>Hot Modulus of Rupture</td> <td>kg/cm²</td> <td>-</td> </tr> <tr> <td>Thermal Conductivity</td> <td>W/m .° k</td> <td>Max 11.0</td> </tr> <tr> <td>Thermal Expansion</td> <td>%</td> <td>-</td> </tr> <tr> <td>Thermal Shock Resistance</td> <td>cycle</td> <td>-</td> </tr> <tr> <td>Max Service Point</td> <td>° C</td> <td>1750</td> </tr> </table>						Bulk Density	g/cm ³	Min 3.0	Appearance Porosity	%	Max 5	Permanent Linear Change	%	-	Cold Crushing Strenght	kg/cm ²	Min 300	Refractoriness Under Load	°C	-	Hot Modulus of Rupture	kg/cm ²	-	Thermal Conductivity	W/m .° k	Max 11.0	Thermal Expansion	%	-	Thermal Shock Resistance	cycle	-	Max Service Point	° C	1750
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Remark: - Packing: - Shelf life: <input checked="" type="checkbox"/> 2 Year NA <input type="checkbox"/> Life time: - Quality Check: Certificate from supplier and laboratory test																																			
Edited: 1- Mehdi Eslampour		Checked: 1- Vahid Safarzadeh		Approved: 1- Mohammad Ali Jafarzadeh																															