
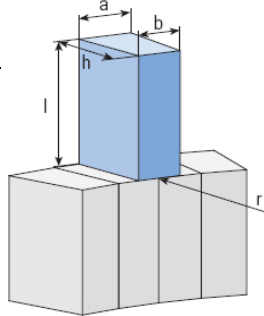


Date: 02/08/02		Material Specification for EAF Brick-35/40		 IRAN ALLOY STEEL CO.																															
Rev.: 00																																			
ID code:7002080036		Area: EAF Brick		Storage site:PU 46																															
General properties																																			
Basic Components:Magnesia-Carbon			Bonding System:Resin bonded																																
Classification: Fused Magnesia																																			
Chemical composition (wt. %) : <table> <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>Min 1</td> </tr> <tr> <td>C</td> <td>Min 12</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	Min 1	C	Min 12	Fig./Size  <table> <tr> <td>a=170</td> <td>b=130</td> <td>h=350</td> <td>l=100</td> <td>r=0</td> </tr> </table>			a=170	b=130	h=350	l=100	r=0													
MgO	Min 97.0																																		
CaO	Max 2																																		
SiO ₂	Max 0.8																																		
Al ₂ O ₃	Max 1.5																																		
Fe ₂ O ₃	Min 1																																		
C	Min 12																																		
a=170	b=130	h=350	l=100	r=0																															
Sieve analysis /Dimension:- Physical properties : - <table> <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> <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
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																																	
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: Ehsan Zarezadeh		Checked: Mehdi Eslampour		Approved: Vahid Saffarzadeh																															