
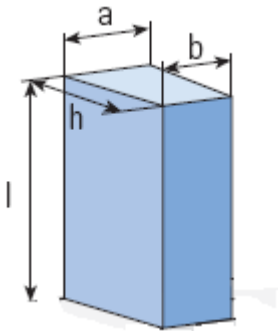


Date: 97/07/01		Material Specification for Ladle bottom Brick - 5P0		 IRAN ALLOY STEEL CO.																															
Rev.: 00																																			
ID code: N-065882.Y		Storage site: PU17		Area: 18R																															
General properties																																			
Basic components: Sintered Magnesia/fused Magnesia			Bonding system: Resin																																
Classification: Ladle refractory																																			
Chemical composition (wt. %): <table border="0"> <tr> <td>MgO</td> <td>Min 96</td> </tr> <tr> <td>CaO</td> <td>1.5-1.9</td> </tr> <tr> <td>SiO₂</td> <td>0.6-0.8</td> </tr> <tr> <td>C</td> <td>7-10</td> </tr> </table>			MgO	Min 96	CaO	1.5-1.9	SiO ₂	0.6-0.8	C	7-10	Fig./Size  a=100mm, b=100mm, l=250mm, h=220																								
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Sieve analysis /Dimension: Physical properties : <table border="0"> <tr> <td>Bulk Density</td> <td>g/cm³</td> <td>3-3.1</td> </tr> <tr> <td>Appearance Porosity</td> <td>%</td> <td>4-6</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>350-600</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</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	3-3.1	Appearance Porosity	%	4-6	Permanent Linear Change	%	—	Cold Crushing Strenght	kg/cm ²	350-600	Refractoriness Under Load	°C	—	Hot Modulus of Rupture	kg/cm ²	—	Thermal Conductivity	W/m .° k	Max 11	Thermal Expansion	%	—	Thermal Shock Resistance	cycle	—	Max Service Point	° C	1750
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Remark: It is necessary to send the product certification including the chemical analysis , mechanical and physical properties of brick along with each shipment																																			
Packing: - Shelf life: <input checked="" type="checkbox"/> 2 Year <input type="checkbox"/> NA																																			
Life time : -																																			
Quality Check: Certificate from supplier and laboratory test																																			
Edited: 1- Ali Shirani 2-Mehdi Eslampoor		Checked: 1-Ahmad Jafarian		Approved: 1- Mohammad Ali Jafarzadeh																															