


Date: 98/04/09		Material Specification for Black Mortar		 IRAN ALLOY STEEL CO.																															
Rev.: 00																																			
ID code : N-065966.Y		Area : Ladle		Storage site : PU17																															
General properties																																			
Basic Components: Bauxite mortar			Bonding System: Chemical - Ceramic																																
Classification: Heat Setting																																			
Chemical composition (wt. %) : <table> <tr> <td>Fe₂O₃</td> <td>Max 0.5</td> </tr> <tr> <td>SiO₂</td> <td>17-21%</td> </tr> <tr> <td>Al₂O₃</td> <td>70-76%</td> </tr> <tr> <td>C</td> <td>6-8</td> </tr> </table>			Fe ₂ O ₃	Max 0.5	SiO ₂	17-21%	Al ₂ O ₃	70-76%	C	6-8	Fig. <div></div>																								
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			Map no.: -																																
Sieve analysis /Dimension: Maximum grain Size 0-0.2mm Physical properties : <table> <tr> <td>Bulk Density</td> <td>g/cm³</td> <td>-</td> </tr> <tr> <td>Appearance Porosity</td> <td>%</td> <td>-</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>-</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>-</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>1650</td> </tr> </table>						Bulk Density	g/cm ³	-	Appearance Porosity	%	-	Permanent Linear Change	%	-	Cold Crushing Strenght	kg/cm ²	-	Refractoriness Under Load	°C	-	Hot Modulus of Rupture	kg/cm ²	-	Thermal Conductivity	W/m .° k	-	Thermal Expansion	%	-	Thermal Shock Resistance	cycle	-	Max Service Point	° C	1650
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Remark: Water required for mixing on Site : Ready to use																																			
Packing: 10kg in humidity proof bags																																			
Shelf life: <input checked="" type="checkbox"/> 1 Year NA <input type="checkbox"/>																																			
Life time: -																																			
Quality Check: Certificate from supplier and laboratory test																																			
Edited: 1-Mehdi Eslampoor		Checked: 1-Ahmad Jafarian		Approved: 1- Mohammad Ali Jafarzadeh																															