



Date: 98/05/15 Rev.: 00		Material Specification for Well Block (Melt)		 IRAN ALLOY STEEL CO.																															
ID code : 7001080024		Area : Ladle		Storage site : PU17																															
General properties																																			
Basic Components: Tabular Alumina - Spinel				Bonding System: Hydraulic																															
Classification: Precast Shape (Low Cement Castable)																																			
<u>Chemical composition (wt. %) :</u> <table> <tr> <td>Al₂O₃</td> <td>90-94</td> </tr> <tr> <td>SiO₂</td> <td>Max 0.2</td> </tr> <tr> <td>MgO</td> <td>5-7</td> </tr> <tr> <td>Fe₂O₃</td> <td>Max 0.1</td> </tr> <tr> <td>CaO</td> <td>1.8-2.2</td> </tr> </table>			Al ₂ O ₃	90-94	SiO ₂	Max 0.2	MgO	5-7	Fe ₂ O ₃	Max 0.1	CaO	1.8-2.2	<u>Fig.</u> 																						
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			<u>Map no.:</u> TS3040 CA206																																
<u>Sieve analysis /Dimension:</u> <u>Physical properties :</u> <table> <tr> <td>Bulk Density</td> <td>kg/m³</td> <td>2.8-3.0</td> </tr> <tr> <td>Appearance Porosity</td> <td>%</td> <td>17-19</td> </tr> </table> <u>Mechanical/Thermal properties:</u> <table> <tr> <td>Permanent Linear Shrinkage at 1600 °C</td> <td>%</td> <td>(-0.26)</td> </tr> <tr> <td>Cold Crushing Strength</td> <td>kg/cm²</td> <td>Min 500</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>1750</td> </tr> </table>						Bulk Density	kg/m ³	2.8-3.0	Appearance Porosity	%	17-19	Permanent Linear Shrinkage at 1600 °C	%	(-0.26)	Cold Crushing Strength	kg/cm ²	Min 500	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	1750
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<u>Remark:</u> - <u>Packing:</u> Pallet Shelf life: <input checked="" type="checkbox"/> 1 Year NA <input type="checkbox"/> <u>Life time:</u> - <u>Quality Check:</u> Certificate from supplier and laboratory test																																			
Edited: 1-Mehdi Eslampour		Checked: 1-Ahmad Jafarian		Approved: 1- Mohammad Ali Jafarzadeh																															