



Date: 98/05/15		Material Specification for Slide Gate		 IRAN ALLOY STEEL CO.																															
Rev.: 00																																			
ID code : 7005010006		Area : Ladle		Storage site : PU17																															
General properties																																			
Basic Components: Alumina - Graphite				Bonding System: Carbon bond																															
Classification: Alumina- Carbon Material																																			
Chemical composition (wt. %) : <table> <tr> <td>Al₂O₃</td> <td>Min 85</td> </tr> <tr> <td>SiO₂</td> <td>6-8</td> </tr> <tr> <td>Fe₂O₃</td> <td>0.1-0.3</td> </tr> <tr> <td>ZrO₂</td> <td>4-6</td> </tr> <tr> <td>C</td> <td>Min15%</td> </tr> </table>			Al ₂ O ₃	Min 85	SiO ₂	6-8	Fe ₂ O ₃	0.1-0.3	ZrO ₂	4-6	C	Min15%	Fig. 																						
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			Map no.: TS3076PR149																																
Sieve analysis /Dimension: - Physical properties : <table> <tr> <td>Bulk Density</td> <td>kg/m³</td> <td>3-3.1</td> </tr> <tr> <td>Appearance Porosity</td> <td>%</td> <td>2-4</td> </tr> </table> Mechanical/Thermal properties: <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 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>-</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	3-3.1	Appearance Porosity	%	2-4	Permanent Linear Shrinkage at 1600 ° C	%	(-0.26)	Cold Crushing Strength	kg/cm ²	Min 600	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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Remark: - Packing: Pallet/in the Box 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 Eslampour		Checked: 1-Ahmad Jafarian		Approved: 1- Mohammad Ali Jafarzadeh																															