



Date: 00/02/25		Material Specification for Tundish Box		 IRAN ALLOY STEEL CO.																																		
Rev.: 00																																						
ID code : 7001040007		Area : Tundish		Storage site : PU17																																		
General properties																																						
Basic Components: Alumina-Bauxite			Bonding System: Chemical bond																																			
Classification: Precast																																						
Chemical composition (wt. %) : <table> <tr> <td>Al₂O₃</td> <td>Min 80</td> </tr> <tr> <td>CaO</td> <td>1-2</td> </tr> <tr> <td>SiO₂</td> <td>Max 16</td> </tr> <tr> <td>Fe₂O₃</td> <td>Max 2</td> </tr> <tr> <td>TiO₂</td> <td>Max 2.5</td> </tr> </table>			Al ₂ O ₃	Min 80	CaO	1-2	SiO ₂	Max 16	Fe ₂ O ₃	Max 2	TiO ₂	Max 2.5	Fig. 																									
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			Map no.: ND1104R2203001002																																			
Sieve analysis /Dimension: - Physical properties : <table> <tr> <td>Poured Density</td> <td>g/cm³</td> <td>Min 2.9</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 at 1000° C</td> <td>kg/cm²</td> <td>Min 400</td> </tr> <tr> <td>Cold Crushing Strenght at 1300 ° C</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 at</td> <td>W/m . ° k</td> <td>-</td> </tr> <tr> <td>Thermal Expansionat</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>1700</td> </tr> </table>						Poured Density	g/cm ³	Min 2.9	Appearance Porosity	%	-	Permanent Linear Change	%	-	Cold Crushing Strenght at 1000° C	kg/cm ²	Min 400	Cold Crushing Strenght at 1300 ° C	kg/cm ²	-	Refractoriness Under Load	°C	-	Hot Modulus of Rupture	kg/cm ²	-	Thermal Conductivity at	W/m . ° k	-	Thermal Expansionat	%	-	Thermal Shock Resistance	Cycle	-	Max Service Point	° C	1700
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Remark: - Packing:- Shelf life: <input checked="" type="checkbox"/> 3 Year NA <input type="checkbox"/>																																						
Quality Check: Certificate from supplier and laboratory test																																						
Edited: Eslampour Mahdi		Checked: Saffarzadeh Vahid		Approved: Jafarzadeh Mohammad Ali																																		