



Date:04/03/12		Material Specification for Purging Gas Plug Block GP6 ST TYPE		 IRAN ALLOY STEEL CO.																									
Rev.: 00																													
ID code : 7003020010		Area : Ladle		Storage site : PU 46																									
General properties																													
Basic Components: Tabular Alumina - Spinel			Bonding System: Hydraulic																										
Classification: Low Cement Castable (Precast Shape)																													
Chemical composition (wt. %) : <table> <tr><td>Al₂O₃</td><td>90-94</td></tr> <tr><td>MgO</td><td>5.0-7.0</td></tr> <tr><td>CaO</td><td>1.8-2.2</td></tr> <tr><td>SiO₂</td><td>Max 0.2</td></tr> <tr><td>Fe₂O₃</td><td>Max 0.1</td></tr> </table>			Al ₂ O ₃	90-94	MgO	5.0-7.0	CaO	1.8-2.2	SiO ₂	Max 0.2	Fe ₂ O ₃	Max 0.1	Fig. 																
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Sieve analysis /Dimension: 360*360*400 mm Physical properties : <table> <tr> <td>Bulk Density</td> <td>2.8-3.0</td> <td>g/cm³</td> </tr> <tr> <td>Appearance Porosity</td> <td>17-19</td> <td>%</td> </tr> </table> Mechanical/Thermal properties: <table> <tr> <td>Permanent Linear Shrinkage</td> <td>-0.26</td> <td>% at 1600 ° C</td> </tr> <tr> <td>Cold Crushing Strength</td> <td>Min 500</td> <td>kg/cm²</td> </tr> <tr> <td>Refractoriness Under Load</td> <td>-</td> <td>T2 , °C</td> </tr> <tr> <td>Hot Modulus of Rupture</td> <td>-</td> <td>kg/cm² at 1000</td> </tr> <tr> <td>Thermal Conductivity</td> <td>-</td> <td>W/m. k at 1000</td> </tr> <tr> <td>Max Service Point</td> <td>1750</td> <td>° C</td> </tr> </table>						Bulk Density	2.8-3.0	g/cm ³	Appearance Porosity	17-19	%	Permanent Linear Shrinkage	-0.26	% at 1600 ° C	Cold Crushing Strength	Min 500	kg/cm ²	Refractoriness Under Load	-	T2 , °C	Hot Modulus of Rupture	-	kg/cm ² at 1000	Thermal Conductivity	-	W/m. k at 1000	Max Service Point	1750	° C
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Remark: - Packing: Pallet Shelf life: <input checked="" type="checkbox"/> 1 Year NA <input type="checkbox"/> Quality Check: Certificate from supplier and laboratory test																													
Edited: Ehsan Zarezadeh		Checked: Mehdi Eslampour		Approved: Vahid Saffarzadeh																									