



Date: 02/08/29		Material Specification for LF Roof (Delta)		 IRAN ALLOY STEEL CO.													
Rev.: 00																	
ID code :N-065874.Y		Area : EAF		Storage site : 46													
General properties																	
Basic Components: Tabular Alumina - Spinel			Bonding System: Hydraulic														
Classification: Ultra Low Cement Refractory Castable																	
<b>Chemical composition (wt. %) :</b>  <table> <tr><td>Al<sub>2</sub>O<sub>3</sub></td><td>85-89</td></tr> <tr><td>SiO<sub>2</sub></td><td>Max 0.2</td></tr> <tr><td>CaO</td><td>Max 1.5</td></tr> <tr><td>Fe<sub>2</sub>O<sub>3</sub></td><td>Max 0.3</td></tr> <tr><td>MgO</td><td>4-6</td></tr> <tr><td>Cr<sub>2</sub>O<sub>3</sub></td><td>4-6</td></tr> </table>			Al <sub>2</sub> O <sub>3</sub>	85-89	SiO <sub>2</sub>	Max 0.2	CaO	Max 1.5	Fe <sub>2</sub> O <sub>3</sub>	Max 0.3	MgO	4-6	Cr <sub>2</sub> O <sub>3</sub>	4-6	<b>Fig.</b> 		
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Cr <sub>2</sub> O <sub>3</sub>	4-6																
			<b>Map no.:</b> -														
<b>Sieve analysis /Dimension:</b>																	
<b>Physical properties :</b>																	
Bulk Density		3.1-3.3	g/cm <sup>3</sup>														
Appearance Porosity		14-18	%														
<b>Mechanical/Thermal properties:</b>																	
Permanent Linear Change		0.1	% at 1000 °C														
Cold Crushing Strength		400-600	kg/cm <sup>2</sup>														
Refractoriness Under Load		-	T2 , °C														
Hot Modulus of Rupture		-	kg/cm <sup>2</sup> at 1000 °C														
Thermal Conductivity		-	W/m. k at 1000 °C														
Max Service Point		1750	° C														
<b>Remark:</b> -																	
<b>Packing:</b> Plastic																	
<b>Shelf life:</b> <input checked="" type="checkbox"/> 1 Year    NA <input type="checkbox"/>																	
<b>Life time:</b> 12month																	
<b>Quality Check:</b>																	
Certificate from supplier and laboratory test																	
Edited: Zarezadeh Ehsan		Checked: Eslampour Mahdi		Approved: Kamali Ali													