


Date: 04/11/30		Material Specification for Safety Layer		 IRAN ALLOY STEEL CO.	
Rev.: 00					
ID code :N-065852.Y		Area : Ladle		Storage site : PU17	
General properties					
Basic Components:Tabular Alumina-Bauxite			Bonding System:Hydraulicand Ceramic		
Classification: Dense Refractory Concrete					
<b><u>Chemical composition (wt. %) :</u></b>  <div> <div>MgO</div> <div>Max 0.5</div> </div> <div> <div>CaO</div> <div>1-2.5</div> </div> <div> <div>SiO<sub>2</sub></div> <div>8-11</div> </div> <div> <div>Fe<sub>2</sub>O<sub>3</sub></div> <div>Max 1.5</div> </div> <div> <div>Al<sub>2</sub>O<sub>3</sub></div> <div>84-86</div> </div> <div> <div>TiO<sub>2</sub></div> <div>Max 3</div> </div>			<b><u>Fig.</u></b>		
			<b><u>Map no.:</u></b>		
<b><u>Sieve analysis /Dimension:</u></b> 0-8mm					
<b><u>Physical properties :</u></b> <div> <div>Poured Density</div> <div>2.5-2.8</div> <div>g/cm<sup>3</sup></div> </div> <div> <div>Appearance Porosity</div> <div></div> <div>%</div> </div>					
<b><u>Mechanical/Thermal properties:</u></b> <div> <div>Permanent Linear Change</div> <div></div> <div>%</div> </div> <div> <div>Cold Crushing Strenght at 110</div> <div>400-600</div> <div>kg/cm<sup>2</sup></div> </div> <div> <div>Cold Crushing Strenght at 800</div> <div>400-500</div> <div>kg/cm<sup>2</sup></div> </div> <div> <div>Refractoriness Under Load at 1100</div> <div>550-650</div> <div>kg/cm<sup>2</sup></div> </div> <div> <div>Hot Modulus of Rupture</div> <div></div> <div></div> </div> <div> <div>Thermal Conductivity</div> <div></div> <div></div> </div> <div> <div>Thermal Expansion</div> <div></div> <div>%</div> </div> <div> <div>Thermal Shock Resistance</div> <div></div> <div>cycle</div> </div> <div> <div>Max Service Point</div> <div>1700</div> <div>° C</div> </div>					
<b><u>Remark:</u></b> <b><u>Packing:</u></b> Shelf life: <input checked="" type="checkbox"/> 1 Year    NA <input type="checkbox"/> <b><u>Life time:</u></b> 12 Months <b><u>Quality Check:</u></b> Certificate from supplier and labratory test					
<b>Edited :</b> Ehsan Zarezadeh		<b>Checked:</b> Eslampour Mahdi		<b>Approved:</b> Saffarzadeh Vahid	

