



Date: 02/09/20	Material Specification for Surround Block		 IRAN ALLOY STEEL CO.														
Rev.: 00																	
ID code : N-068004.Y	Area : EAF Tap hole	Storage site : 4602															
General properties																	
Basic Components: Magnesia-Carbon		Bonding System: Resin bonded															
Classification: Fused Magnesia																	
<u>Chemical composition (wt. %) :</u> <table border="0"> <tr><td>MgO</td><td>Min 97.0</td></tr> <tr><td>CaO</td><td>1-1.5</td></tr> <tr><td>SiO₂</td><td>0.5-1</td></tr> <tr><td>Al₂O₃</td><td>0.5-1.5</td></tr> <tr><td>Fe₂O₃</td><td>0.5-1</td></tr> <tr><td>C</td><td>14-15</td></tr> <tr><td>L.O.I</td><td>13-18</td></tr> </table>		MgO	Min 97.0	CaO	1-1.5	SiO ₂	0.5-1	Al ₂ O ₃	0.5-1.5	Fe ₂ O ₃	0.5-1	C	14-15	L.O.I	13-18	<u>Fig.</u> 	
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		<u>Map No.:</u> SD8103R2217200302															
<u>Sieve analysis /Dimension:-</u>																	
<u>Physical properties :</u>																	
Bulk Density	Min 2.9	g/cm ³															
Appearance Porosity	Max 6	%															
<u>Mechanical/Thermal properties:</u>																	
Permanent Linear Change	-	%															
Cold Crushing Strength	Min 300	kg/cm ²															
Refractoriness Under Load	-	T2 , °C															
Hot Modulus of Rupture	-	kg/cm ² at 1000															
Thermal Conductivity	Max 11.0	W/m. k at 1000															
Thermal Expansion	-	%															
Thermal Shock Resistance	-	cycle															
Max Service Point	1750	° C															
<u>Remark: -</u>																	
<u>Packing:-</u>																	
<u>Shelf life:</u> <input checked="" type="checkbox"/> 2 Year NA <input type="checkbox"/>																	
<u>Quality Check:</u> Certificate from supplier and laboratory test																	
Edited: Ehsan Zarezadeh		Checked: Mehdi Eslampour	Approved: Ali Kamali														