
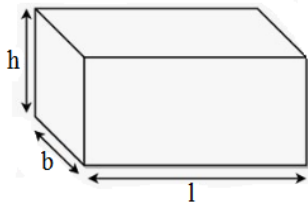


Date: 02/10/23		Material Specification for EAF Safety Lining NF 2/76		 IRAN ALLOY STEEL CO.																															
Rev.: 00																																			
ID code: 7002050007		Area: EAF		Storage site: PU 46																															
General properties																																			
Basic Components: Magnesita			Bonding System: Burned Magnesite																																
Classification: Burned Magnesite																																			
<b>Chemical composition (wt. %) :</b>  <table border="0"> <tr><td>MgO</td><td>Min 90.0</td></tr> <tr><td>CaO</td><td>2.2</td></tr> <tr><td>SiO<sub>2</sub></td><td>2.5</td></tr> <tr><td>Al<sub>2</sub>O<sub>3</sub></td><td>0.6</td></tr> <tr><td>Fe<sub>2</sub>O<sub>3</sub></td><td>0.7</td></tr> </table>			MgO	Min 90.0	CaO	2.2	SiO <sub>2</sub>	2.5	Al <sub>2</sub> O <sub>3</sub>	0.6	Fe <sub>2</sub> O <sub>3</sub>	0.7	<b>Fig.</b>   <b>b=124      h=76      l=250</b>																						
MgO	Min 90.0																																		
CaO	2.2																																		
SiO <sub>2</sub>	2.5																																		
Al <sub>2</sub> O <sub>3</sub>	0.6																																		
Fe <sub>2</sub> O <sub>3</sub>	0.7																																		
<b>Sieve analysis /Dimension:</b> 250*124*76 <b>Physical properties :</b> <table border="0"> <tr><td>Bulk Density</td><td>2.90-3.05</td><td>g/cm<sup>3</sup></td></tr> <tr><td>Appearance Porosity</td><td>14-18</td><td>%</td></tr> </table> <b>Mechanical/Thermal properties:</b> <table border="0"> <tr><td>Permanent Linear Change</td><td>-</td><td>%</td></tr> <tr><td>Cold Crushing Strength</td><td>600</td><td>kg/cm<sup>2</sup></td></tr> <tr><td>Refractoriness Under Load</td><td>Min 1450</td><td>T2 , °C</td></tr> <tr><td>Hot Modulus of Rupture</td><td>Min 45</td><td>kg/cm<sup>2</sup> at 1000 °C</td></tr> <tr><td>Thermal Conductivity</td><td>Max 6</td><td>W/m. k at 1000 °C</td></tr> <tr><td>Thermal Expansion</td><td>-</td><td>%</td></tr> <tr><td>Thermal Shock Resistance</td><td>-</td><td>cycle</td></tr> <tr><td>Max Service Point</td><td>1750</td><td>° C</td></tr> </table>						Bulk Density	2.90-3.05	g/cm <sup>3</sup>	Appearance Porosity	14-18	%	Permanent Linear Change	-	%	Cold Crushing Strength	600	kg/cm <sup>2</sup>	Refractoriness Under Load	Min 1450	T2 , °C	Hot Modulus of Rupture	Min 45	kg/cm <sup>2</sup> at 1000 °C	Thermal Conductivity	Max 6	W/m. k at 1000 °C	Thermal Expansion	-	%	Thermal Shock Resistance	-	cycle	Max Service Point	1750	° C
Bulk Density	2.90-3.05	g/cm <sup>3</sup>																																	
Appearance Porosity	14-18	%																																	
Permanent Linear Change	-	%																																	
Cold Crushing Strength	600	kg/cm <sup>2</sup>																																	
Refractoriness Under Load	Min 1450	T2 , °C																																	
Hot Modulus of Rupture	Min 45	kg/cm <sup>2</sup> at 1000 °C																																	
Thermal Conductivity	Max 6	W/m. k at 1000 °C																																	
Thermal Expansion	-	%																																	
Thermal Shock Resistance	-	cycle																																	
Max Service Point	1750	° C																																	
<b>Remark: -</b> <b>Packing:</b> Pallet <b>Shelf life:</b> <input checked="" type="checkbox"/> 2 Year      NA <input type="checkbox"/> <b>Quality Check:</b> Certificate from supplier and laboratory test																																			
<b>Edited:</b> Ehsan Zarezadeh		<b>Checked:</b> Mehdi Eslampour		<b>Approved:</b> Mohammad Ali Jafarzadeh																															