



Date: 99/06/05		Material Specification for Tundish safety brick		 IRAN ALLOY STEEL CO.	
Rev:00		Storage site: PU17		Area: Tundish	
General properties					
Basic Components: Mullite Fireclay, Alumina				Bonding System: -	
Classification: Tundish Refractory					
Chemical composition (wt. %):			Fig.		
Al <sub>2</sub> O <sub>3</sub> 40-50 SiO <sub>2</sub> 40-50 Fe <sub>2</sub> O <sub>3</sub> 1-2					
			NF1/32: 230*114*32 NF2/40: 230*114*40		
			Map no: -		
Sieve analysis /Dimension:					
Physical properties:					
Bulk Density		g/cm <sup>3</sup>	2.2-2.4		
Appearance Porosity		%	16-18		
Mechanical/Thermal properties:					
Permanent Linear Change		%	-		
Cold Crushing Strenght		kg/cm <sup>2</sup>	400-600		
Refractoriness Under Load		°C	-		
Hot Modulus of Rupture		kg/cm <sup>2</sup>	-		
Thermal Conductivity		W/m .° k	-		
Thermal Expansion		%	-		
Thermal Shock Resistance		cycle	-		
Max Service Point		° C	1200		
Remark: -					
Packing: In pallet					
Shelf life: <input type="checkbox"/> ... Year <input checked="" type="checkbox"/> NA					
Life time : High performance in tundish safty lining					
Quality Check: Certificate from supplier and laboratory test					
Edited: Eslampour Mahdi		Checked: Saffarzadeh Vahid		Approved: Jaafarzadeh Mohammad Ali	