

Date:01/08/19

Material Specification for Castable AL95



IRAN ALLOY STEEL CO.

Rev.: 01

ID code : N-065907.Y

Area : Ladle

Storage site : PU17

General properties

Basic Components: Tabular Alumina and Refractory Cement**Bonding System:** Hydraulic and Ceramic**Classification:** High Alumina Castable

Chemical composition (wt. %) :

Na ₂ O,K ₂ O	Max 0.5
CaO	Max 2.5
SiO ₂	0.2-1
Al ₂ O ₃	Min 94
Fe ₂ O ₃	0.1-0.5

Fig.

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Map no.: -

Sieve analysis /Dimension:0-6mm

Physical properties :

Bulk Density g/cm³ 2.7-3.0

Mechanical/Thermal properties:

Cold Crushing Strength After drying at 110°C kg/cm² Min 350Cold Crushing Strength After Firing at 1000°C kg/cm² Min 400

Thermal Conductivity at 1000°C W/m . ° k 2.1-2.6

Thermal Expansion at 1000°C % 0.7-0.8

Amount of Liquid addition Certificate from Supplier

Max Service Point ° C 1750

Remark:

Packing: In Wooden Pallets

Working method: Casting-Vibrating

Shelf life: ☒ ... Year NA ☐**Life time:** Storage Limit : 12 Months**Quality Check:** Certificate from supplier and laboratory test**Edited:**
Mehdi Eslampour**Checked:**
Vahid Saffarzadeh**Approved:**
Mohammad Hossein Jafarzadeh