| Date: 98/03/09<br>Rev.: 00 | **Material Specification for Slag Door Cold Ramming Mix(KS)** | IRAN ALLOY STEEL CO. |
|---|---|---|

**ID code :N-065972.Y** **Area : EAF** **Storage site :**

**General properties**

| **Basic Components:Magnesia** | **Bonding System:Sintered** |
|---|---|

**Classification: Sintered Magnesia**

**Chemical composition (wt. %) :**

MgO : 90-94
CaO : 1.8- 3.0
$SiO_2$ : 1-3.0
$Fe_2O_3$: 0.5- 1.6

**Fig.**

**Map no.:**

**Sieve analysis /Dimension:0-6mm**

**Physical properties :**

| | | |
|---|---|---|
| Poured Density | Min 2.4 | $g/cm^3$ |
| Appearance Porosity | | % |

**Mechanical/Thermal properties:**

| | | | |
|---|---|---|---|
| Cold Crushing Strenghtat | 110° C | Min30 | $kg/cm^2$ |
| Cold Crushing Strenghtat | 1200° C | Min30 | $kg/cm^2$ |
| Cold Crushing Strenghtat | 1500° C | Min100 | $kg/cm^2$ |
| Thermal Conductivity at 1000° C | | 1.6-2.0 | W/m .° k |
| Thermal Expansionat 1400° C | | 1.90 | % |
| Thermal Shock Resistance | | | Cycle |
| Max Service Point | | 1750 | ° C |

**Remark:**

**Packing:**

Shelf life: ☑ … Year NA☐

**Life time: 12 Months**

**Quality Check:**

Certificate from supplier and laoratory test

| **Edited**: | **Checked:** | **Approved:** |
|---|---|---|