



# **KERMAN AZARMAHAN REFRACTORIES CO.**

## **Ladle Filler Sands Data Sheets**

### **Products Names: KazarSand-LF-Cr5 (Carbon-Mixed)**

Main Raw Materials	Cr <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub>
Particle Size	0.4 ≤ d <sub>95</sub> ≤ 1.18 mm
Maximum Service Temperature	1650°C
Refractoriness (ASTM C24)	30 (1665°C)
Type of Delivery	Dry
Shelf Life	12 Months (When stored dry in a cool, dry warehouse)
Bulk density	1.8-2.2 g/cc

### **Chemical Analysis (ICP Method, Wt. %)**

Oxide	Cr <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub> *	Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	C
Typical	5.2	82.4	3.3	3.9	3.6	0.5	0.9
Range	Min 4	Max 83	Max 4	Max 5	Max 4	Max 1	Max 1

\*As FeO + Fe<sub>2</sub>O<sub>3</sub>

### **Description:**

Ladle filler sands of KAZAR are the mixtures of high purity refractory materials that are filled in the nozzle of sliding gate system. The main goal is to achieve a high free opening ratio and prevention of clogging when the sliding gate is opened. The engineers at KAZAR control the most important factor to obtain this goal that is sintering layer between the molten and upside of the sand.

The size of the sands depends on ladle size so it can be change based on requests.

The technical data represent the average of the current production. During the test has to be considered a fluctuation of these values ± 5%

**103 DATE: 2023/13/08**