



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



KORACAST GSF

| | |
|--|---|
| Max. Temperature Service: | 1815 °C |
| Classification: | High Alumina Castable (Self flow) |
| Main Raw Material Component: | Blended mixture of Tabular alumina and low Iron calcium aluminate binder. |
| Type Of Bond: | Hydraulic |
| Grain Size: | 0 – 3.5 mm |
| Water required For Pouring: | 8 – 10 % |
| Dry Castable Required: | 2750 Kg/m ³ |
| Features and Main Applications: | General uses. High refractoriness, exceptional strength and abrasion resistance. Resistant to ferrous and non – ferrous metals and associated slags. High stability under reducing and other special atmospheres. May be cast, rammed, gunned, or troweled into place. High thermal shock resistance. |

Chemical Composition (Calcined base)

| Al ₂ O ₃ % | Fe ₂ O ₃ % | CaO % |
|----------------------------------|----------------------------------|-----------|
| 93 – 95 | < 0.2 | 4.0 – 6.0 |

Thermomechanical Properties

| | | After drying at 110 °C | After heating at 1730 °C |
|-------------------------------|------------------------|---------------------------|-----------------------------|
| Bulk Density | (Kg/m ³) | > 2800 | – |
| Cold Crushing Strength | (kg/cm ²) | 500-800 | 600-750 |
| Modulus of Rupture | (kg/cm ²) | 120-170 | 160-200 |
| Linear Change | (%) | Negligible | – 0.6 to +0.1 |

All data based on cast specimens . ASTM procedures , where applicable , used for determination of data .

For data of vibration cast or gunned , consult our sales & Engineering service's experts .

All data subject to reasonable deviations , and therefore , should not be used for specification purposes . ASTM Test Methods, where applicable, used for determination of data.

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