

CCREFRACTORIES TECHNICAL DATA SHEET

CHROME CORUNDUM BRICK (CR-90)

EXTREME CORROSION RESISTANCE FOR AGGRESSIVE METALLURGICAL ENVIRONMENTS

The Chrome Corundum Brick CR-90 is manufactured with high-purity fused alumina and chromium oxide, designed for use in severe chemical and mechanical environments. The addition of Cr_2O_3 enhances the brick's ability to withstand aggressive slag, gas, and metal corrosion, making it ideal for the most demanding non-ferrous, petrochemical, and waste incineration applications.

TECHNICAL SPECIFICATIONS	
PROPERTY	CR-90
Al ₂ O ₃ (%)	≥75
Cr ₂ O ₃ (%)	≥ 10 – 20
Apparent Porosity (%)	≤ 18
Bulk Density (g/cm³)	≥ 3.2
Cold Crushing Strength (MPa)	≥ 100
Modulus of Rupture at 1400°C (MPa)	≥ 12
Refractoriness Under Load (0.2 MPa, °C)	≥ 1700
Thermal Conductivity at 1000°C (W/m·K)	2.0 – 2.4
Maximum Service Temperature (°C)	1800
Bond Type	Fused Alumina & Chrome Oxide

PACKAGING & SUPPLY INSTALLATION NOTES · Export-standard packaging Recommended jointing with on fumigated pallets chrome-alumina mortar · Supplied in various formats, Preheating before use can improve including custom-designed campaign life in high-impact areas interlocking shapes Ensure joint tightness in high-Accompanied by complete pressure gas environments QA and batch conformity certifications

ENVIRONMENTAL & SAFETY NOTES

- · Hexavalent chromium content well below international limits
- · Designed for reduced maintenance frequency and refractory waste
- · Safe handling instructions provided for high-temperature service

KEY APPLICATIONS

- · Copper & Nickel Smelting Furnaces
- Anode Baking Furnace Walls and Roofs
- · Petrochemical Gasifiers
- · Hazardous Waste Incinerators
- High-Wear Burner Zones and Launders

PERFORMANCE CHARACTERISTICS

- Exceptional resistance to alkali and acidic slags
- High density ensures superior erosion resistance in molten metal contact zones
- Suitable for use in reducing and oxidising atmospheres
- Offers dimensional stability under thermal cycling and high load



