



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



ALMA 80H

| | |
|--|---|
| Classification: | High Alumina Brick |
| Main Raw Material Component: | Bauxite (Rotary Kiln) |
| Type Of Bond: | Ceramic |
| P.C.E. (Equivalent temperature) | > 36 (1804°C) |
| Main Applications: | Working & Safety layers in steel melting vessels, EAF roof .Rolling mill plants & high temp. zones of cement plants as well as Chemical & Nonferrous Industries |

| Chemical Composition (Calcined base) | | | |
|--|--------------------|----------------------------------|--------------------|
| Al ₂ O ₃ % | SiO ₂ % | Fe ₂ O ₃ % | TiO ₂ % |
| 78 – 81 | 10 – 14 | 2 – 3 | 3 – 4 |

| Physical Properties | | |
|-------------------------------|--------------------|----------|
| Bulk Density | g/cm ³ | > 2.60 |
| Cold Crushing Strength | kg/cm ² | 700-1000 |
| Apparent Porosity | % | < 19 |
| Modulus of Rupture | kg/cm ² | 120-180 |

| Thermomechanical Properties | | |
|--|----|----------|
| Refractoriness under Load T05 | °C | Min 1500 |
| Reversible Linear thermal expansion (1300 °C) | % | ≈ 1.0 |

The above data are typical of the properties of commercial Standard brick .

The data are subject to reasonable variation and therefore should not be used for Specification purposes. They may not be regarded as committed specifications and therefore not as guaranteed properties .

ASTM Test Methods, where applicable, used for determination of data.

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