



ALMA 50 CH

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| Classification: | Medium Alumina Brick |
| Main Raw Material Component: | Bauxite – Chamotte |
| Type Of Bond: | Ceramic |
| P.C.E. (Equivalent temperature) | > 33 (1743 °C) |
| Main Applications: | Various purposes ; Steel & Cement Industries (particularly end part of Safety zone of rotary kiln) as well as Chemical & Nonferrous Industries |

Chemical Composition (Calcined base)

| Al ₂ O ₃ % | SiO ₂ % | Fe ₂ O ₃ % | TiO ₂ % |
|----------------------------------|--------------------|----------------------------------|--------------------|
| 46 – 50 | 42-44 | 1.0 – 1.3 | 4 – 6 |

Physical Properties

| | | |
|-------------------------------|--------------------|-----------|
| Bulk Density | gr/cm ³ | 2.20-2.35 |
| Cold Crushing Strength | kg/cm ² | 400-600 |
| Apparent Porosity | % | 11-17 |
| Modulus of Rupture | kg/cm ² | 80-150 |

Thermomechanical Properties

| | | |
|--|----|----------|
| Refractoriness under Load T05 | °C | Min 1350 |
| Reversible Linear thermal expansion (1100 °C) | % | ≈ 0.9 |

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.

Revision:7

IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



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