

# HEGSEL® ProBrick HS

High-Strength Acid-Resistant Brick

*You Build, We Protect!*

Acid-resistant chamotte brick, manufactured by dry-pressing.

Chemical Composition		Dimensions
Al <sub>2</sub> O <sub>3</sub>	24%	A variety of shapes and dimensions can be accommodated, based on the specifications provided by clients.
SiO <sub>2</sub>	69%	
Na <sub>2</sub> O + K <sub>2</sub> O	4%	
Fe <sub>2</sub> O <sub>3</sub>	1.4%	
TiO <sub>2</sub>	0.7%	

Characteristics	Standard	Value
Bulk Density	EN 993-1	2.18 g/cm <sup>3</sup>
Water Absorption	EN 993-1	3.8%
Apparent Porosity	EN 993-1	8.5%
Cold Crushing Strength	EN 993-5	110 MPa
Flexural Tensile Strength	EN 993-6	17 MPa
Refractoriness Under Load (T05)	EN ISO 1893	1250 °C
Thermal Expansion at 1000 °C	EN 993-19	0.4%
Thermal Shock Resistance at 450 °C	EN 993-11	> 13 Cycles
Acid Resistance	EN 993-16	0.7%
Thermal Conductivity	EN ISO 8894-2	150 °C : 1.10 W/mK 300 °C : 1.10 W/mK 700 °C : 1.70 W/mK
Dimensional Tolerances	-	≤ 133 mm: ± 2 mm > 133 mm: ± 1.5%

**Note:** The provided values represent the average results obtained from testing.

## Application Areas

**HEGSEL ProBrick HS** is ideal for various industrial applications including cement and lime, chemical and energy sectors, industrial chimneys, incineration plants, refineries, metallurgy, pulp production, glass manufacturing, ceramic industries, etc.

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