

# HEGSEL® SuperBrick LS

Light-Weight Acid-Resistant Bricks

*You Build, We Protect!*

**HEGSEL SuperBrick LS** is a dry-pressed, light-weight acid-resistant brick engineered for chemical resistant lining systems. It provides excellent resistance to acidic environments and is suitable for use as lightweight masonry in industrial protection systems.

## Chemical Composition

<b>Al<sub>2</sub>O<sub>3</sub></b>	<b>21%</b>
<b>SiO<sub>2</sub></b>	<b>72%</b>
<b>Fe<sub>2</sub>O<sub>3</sub></b>	<b>1.0%</b>
<b>Na<sub>2</sub>O / K<sub>2</sub>O</b>	<b>3.7%</b>

**Note:** The provided data are averages from the manufacturing process, aligned with current DIN standards, and should not be used directly as inspection criteria.

Characteristics	Standard	Value
<b>Bulk Density</b>	DIN EN 993-1	1.27 g/cm <sup>3</sup>
<b>Water Absorption</b>	DIN EN 993-1	33 wt. %
<b>Open Porosity</b>	DIN EN 993-1	42 vol. %
<b>Cold Crushing Strength</b>	DIN EN 993-5	20 MPa
<b>Acid Solubility</b>	DIN EN 993-16	0.80 wt. %
<b>Thermal Expansion</b>	-	0.55% / 1000 °C
<b>Thermal Conductivity @400 °C</b>	-	0.62 W/m.K
<b>Thermal Conductivity @800 °C</b>	-	0.65 W/m.K
<b>Thermal Conductivity @1200 °C</b>	-	0.70 W/m.K

## Main Application

**HEGSEL SuperBrick LS** is suitable for application in reactors, vessels, flue gas ducts, scrubbers, absorption towers, and similar process equipment in the chemical and process industries. The material is designed for use in areas exposed to corrosive media where reduced structural weight, thermal insulation, and compatibility with acid-resistant linings are required.

**HEGSEL SuperBrick LS;** Revision No: 0.00 / Last Revision Date: 15.10.2025

All information contained herein is based on the current state of our knowledge and practical experience at the time of release. Therefore, please make sure that this is the latest edition of the Technical Data Sheet. All data are only intended as a guideline for informational purposes and do not constitute a legally-binding warranty of the suitability for a certain purpose of use, due to its dependence on site conditions and possible processing, use and applications. All information contained in this technical datasheet is subject to change without notice.

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