

# HEGSEL® UltraTile R11

R11 Acid-Resistant Tiles

*You Build, We Protect!*

**Unglazed Split Tile Series**

**Unglazed Stoneware Split Tile, according to EN 14411 - Al<sub>b</sub> / Gray - yellow**

**Declaration of Performance in accordance with EU Nr. 305 / 2011 / BL 0001**

Chemical Composition		Dimensions	
		Manufactured	Nominal
Al <sub>2</sub> O <sub>3</sub>	20 - 25 %	240 x 115 x 10 mm	250 x 125 x 10 mm
		240 x 115 x 14 mm	250 x 125 x 14 mm
		240 x 115 x 18 mm	250 x 125 x 18 mm
TiO <sub>2</sub>	1.2 – 1.5 %	240 x 115 x 25 mm	250 x 125 x 25 mm
		240 x 115 x 30 mm	250 x 125 x 30 mm
Fe <sub>2</sub> O <sub>3</sub>	< 1.2 %	240 x 115 x 40 mm	250 x 125 x 40 mm

Characteristics	Standard	Value
Bulk density	EN ISO 10545-3	2.30 - 2.33 g/cm <sup>3</sup>
Water absorption	EN ISO 10545-3	< 0.9 %
Apparent porosity	EN ISO 10545-3	0.7 - 1.1 %
Cold crushing strength	EN 993-5	250 N/mm <sup>2</sup>
Breaking load	EN ISO 10545-4	10 mm > 2.666 N 25 mm > 16.667 N 14 mm > 3.155 N 30 mm > 24.000 N 18 mm > 8.640 N 40 mm > 42.667 N
Thermal expansion coefficient	EN ISO 10545-8	6.0 × 10 <sup>-6</sup> mmK <sup>-1</sup>
Frost resistance	EN ISO 10545-12	given
Glaze crazing resistance	EN ISO 10545-11	given
Abrasion resistance	EN ISO 10545-6 (ugl) EN ISO 10545-7 (gl)	< 275 mm <sup>3</sup>
Modulus of rupture	EN ISO 10545-4	> 40 N/mm <sup>2</sup>
Acid solubility	DIN EN 993-16	0.9 - 1.2 Gew. %
Resistance to low concentrations of acids and alkaline	EN ISO 10545-13	ULA
Resistance to high concentrations of acids and alkaline	EN ISO 10545-13	UHA
Resistance to domestic chemicals and additives for swimming pools	EN ISO 10545-13	UA
Resistance to staining	EN ISO 10545-14	4
Slip resistance	EN 16165:2021 annex B	R11
Slip resistance	EN 16165:2021 annex A	B/C

**Main Application**

HEGSEL UltraTile R11 can be used for floors and equipment in various industries, including chemical and petrochemical plants, steel / copper plants, power plants, fertilizer plants, pharmaceuticals, pulp / paper plants, etc.

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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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