

# Technical data

Test parameters	Test specimen	Unit	Average value
<b>1. Basic key values for iron-silicate stone</b>			
■ Dry bulk density	armourstones	t/m <sup>3</sup>	3.65
■ Bulk density	all types	t/m <sup>3</sup>	1.80 - 2.35
<b>2. Applications in hydraulic engineering</b>			
■ Bulk density	armourstones	t/m <sup>3</sup>	2.00 - 2.10
	Mixture 0/125 mm	t/m <sup>3</sup>	2.35
■ Particle shape	armourstones	M.-%	< 6.0
■ Water absorption	armourstones	%	0.1
■ Splinters (freezing-thawing test)	armourstones	%	0.1
■ Resistance against breaking	Cube	Mpa	313
■ Compatibility in water management:			
■ Cu in eluate	armourstones	mg/l	< 0.05
<b>3. Applications in road construction</b>			
■ Bulk density	0/5, 5/22, 22/45 mm	t/m <sup>3</sup>	1.90 - 2.00
	Grit 8/11 mm	t/m <sup>3</sup>	1.80
	Ballast 32/45 mm	t/m <sup>3</sup>	1.85
	Mixture 0/45 mm	t/m <sup>3</sup>	2.30
■ Water absorption	Grit 8/11 mm	%	0.2
■ Splinters (freezing-thawing test)	Grit 8/16 mm	%	0.1
■ Resistance against impacts	Grit / ballast	%	21 - 23
■ Proctor density			
■ 100 %	Mixture 0/45 mm	t/m <sup>3</sup>	2.7
■ W <sub>opt</sub>	Mixture 0/45 mm	%	3.1
■ Water permeability	Mixture 0/45 mm	m/s	K <sub>10</sub> = 5 x 10 <sup>-4</sup>
■ Compability in water management:			
■ Cu in eluate	Grit 8/11 mm	mg/l	< 0.05
■ Pb in eluate	Grit 8/11 mm	mg/l	< 0.01
■ Zn in eluate	Grit 8/11 mm	mg/l	< 0.07