

Water soluble ions

PAROC Stone Wool Products

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PAROC® stands for energy-efficient and fire safe insulation products and solutions of stone wool for new and renovated buildings, HVAC, marine and offshore and other industrial applications. Behind those products there is an 80-year history of stone wool production knowhow backed with technical insulation expertise and innovation.

We in Paroc are regularly monitoring the content of water soluble ions in our stone wool products for Technical Insulation applications.

The analysis is based on EN 13468 test method regarding water soluble fluoride (F⁻), chloride (Cl⁻), sodium (Na⁺) and silicate (SiO₃²⁻) ions and on EN ISO 10523 and SFS 3021 methods regarding the pH value of the solution.

Following results have been obtained between January 1st and December 31st 2021:

	Content, mg/kg	Average, mg/kg
F ⁻	<8,3	<5,5
Cl ⁻	<10	<3,9
Na ⁺	19 – 68	38
SiO ₃ ²⁻	130 – 470	315
pH	9,1 – 10,1	9,7

The results fulfill the performance level declared for various PAROC Technical Insulation stone wool products according to EN 14303:2009 + A1:2013 regarding water soluble chlorides (declared value <10 mg/kg) and the requirements of the limit curve of ASTM C795 – 08 (2013) & U.S. NRC Regulatory Guide 1.36. The result range is shown on the mentioned limit curve as the Appendix of this statement.

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APPENDIX

 C795 - 08 (2013)

