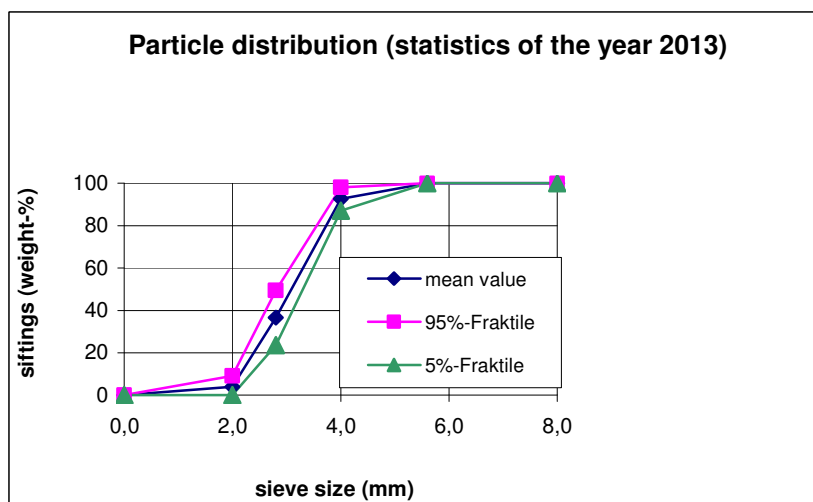


Data Sheet

Type	Liaver 2-4mm		
Main properties Kind of material Shape	Expanded glass granules spheric , closed surface		Leightweight aggregate according to EN 13055-1
Geometrical properties Grain size Dust (< 0.063mm)	2 – 4 mm < 1 %		Test method EN 933-1 EN 933-1
Physical properties Loose bulk density Particle density Crushing resistance Resistance to freezing and thawing	190 ± 15% 310 ± 15% ≥ 2.2 < 4.0	kg/m ³ kg/m ³ N/mm ² weight-%	EN 1097-3 DIN V 18004 following EN 13055-1 Annex A following EN 13055-1 Annex C
Chemical properties Chloride Acid soluble sulfat Total sulfur	< 0.01 < 0.1 < 0.1	weight-% weight-% weight-%	DIN EN 1744-1
Chemical Composition SiO ₂ Al ₂ O ₃ Na ₂ O Fe ₂ O ₃ CaO MgO K ₂ O Trace elements	71 ± 2 2 ± 0.3 13 ± 1 0.5 ± 0.2 8 ± 2 2 ± 1 1 ± 0.2 < 0.5	weight-% weight-% weight-% weight-% weight-% weight-% weight-% weight-%	DIN 51001
Other properties Thermal conductivity λ _R Classification of fire Water vapour diffusion resistance factor μ VOC-class (French regulation of VOC from construction products Decret No. 2011-321)	0.07 A1 5 A+ (very weakly emission)	W/(mK)	DIN EN 12667 DIN 4102-4 DIN 4108-3 ISO 16000; DIN EN 717-1



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