

## **TECHNICAL DATA SHEET**

Lightweight aggregate according to DIN EN 13055-1

Poraver® expanded glass	BASIC GRANULAR SIZES					SPECIAL GRANULAR SIZES	
Granular size in mm	0.1-0.3	0.25-0.5	0.5-1	1-2	2-4	0.04-0.125	0.5-1.25
Bulk density in kg/m³	400 ± 60	340 ± 30	270 ± 30	230 ± 30	190 ± 20	530 ± 70	260 ± 30
Particle density in kg/m <sup>3</sup>	950 <sup>1)</sup> ± 150	700 <sup>1)</sup> ± 80	500 1) ± 80	400 1) ± 60	320 1) ± 40	1400 <sup>2)</sup> ± 300	490 1) ± 80
Crushing resistance in N/mm <sup>2</sup> according to DIN EN 13055-1 31	2.8	2.6	2.0	1.6	1.4	-	1.9
Oversize % by mass	≤ 10						
Undersize % by mass	≤ 15						
pH value	8 - 11						
Moisture content % by volume	< 0.2						
Moisture content % by mass	< 0.5						
Water absorption % by volume	33	15	9	7	4.5	-	10
Water absorption % by mass	35	21	18	19	14	-	20
Softening point	approx. 700°C						
Colour	creamy white						
Thermal conductivity W/(m·K)	-	-	-	-	0.07 4)	-	-
CE according DIN EN 13055-1	•	•	•	•	•	-	•
Approval Z-3.42-1894	•	•	•	•	•	-	•
Approval Z-23.11-114	-	-	-	-	•	-	-

The strength grades may vary within the tolerance range of bulk densities. The availability and delivery conditions for special grain sizes will be agreed on an individual basis.

## **CHEMICAL ANALYSIS**

Constituent	Applied to the sample dried at 105°C	LOI free	Analysis method	
Loss on ignition	0.3 %	-	DIN EN 1744-1	
CaO	8.9 % 9.0 %			
SiO <sub>2</sub>	71.7 %	71.9 %		
Al <sub>2</sub> O <sub>3</sub>	2.5 %	2.5 %	atomic emission	
TiO <sub>2</sub>	0.1 %	0.1 %		
Fe <sub>2</sub> O <sub>3</sub>	0.4 %	0.4 %	spectrometric (AES)	
Mn <sub>2</sub> O <sub>3</sub>	0 %	0 %		
MgO	2.1 %	2.1 %		
K <sub>2</sub> 0	0.8 %	0.8 %		
Na <sub>2</sub> O	13.2 %	13.2 %		
SO <sub>3</sub>	0.1 %	0.1 %	coulometric	
CI	-	-	argentometric	

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Apparent (relative) density according to EN 1097-6
Density of filler according to EN 1097-7
Values according to DIN V 18004 on request
Calculated values DIBt according to Approval Z-23.11-114 (Thermal insulating material, non combustible according to construction material class DIN 4102-A1)