

EGF22 Expanded glass granules, are lightweight aggregates and fillers suitable for use in a wide range of applications.

Using patented technology, recycled glass is crushed, granulated, melted and foamed to produce granules with a closed shell and a porous internal structure. The granules are continuously produced with minimal variation of its characteristic properties, thereby ensuring consistent performance across a wide range of applications.

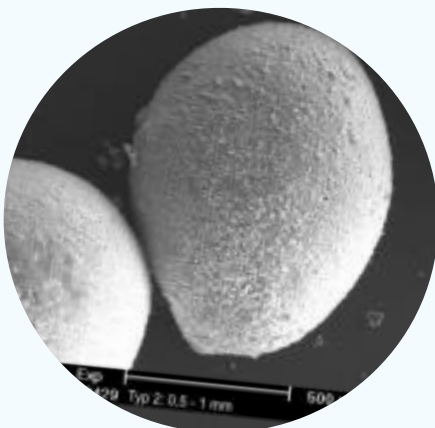
Unlike sand, glass granules do not contain crystalline silica, so are ideal in applications that involve cutting or sanding. EGF22 Glass granules are manufactured using sustainably sourced post consumer glass which helps conserve our natural resources and reduce landfill waste.



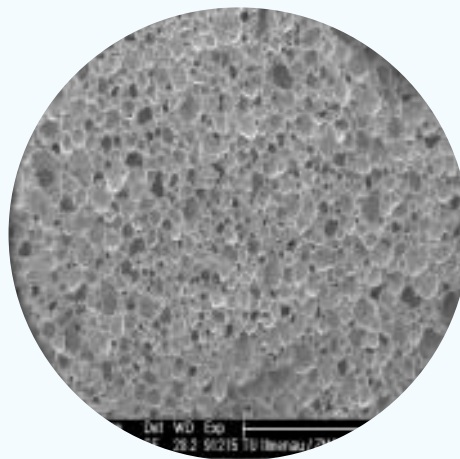
APPLICATIONS		FEATURES	
• Renders	• Lightweight Concrete	• Lightweight (BD: 170 - 450 kg/m ³)	• High recycled content (> 95%)
• Tile Adhesives	• Lightweight Panels	• Non combustible	• Fiber free
• Screeds	• Non Combustible Panels	• Low thermal conductivity (<0.07 w/mk)	• Non-toxic
• Mortars	• Acoustic Panels	• High sound absorption (NRC ≤ 0.95)	• No VOC (Volatile Organic Compounds)
• Lightweight Fill	• Masonry Blocks	• High strength/density ratio	• Six sizes from 0.1mm to 8mm enables customised gradations
• Composites	• Refractories	• Free of crystalline silica	

Granule Properties

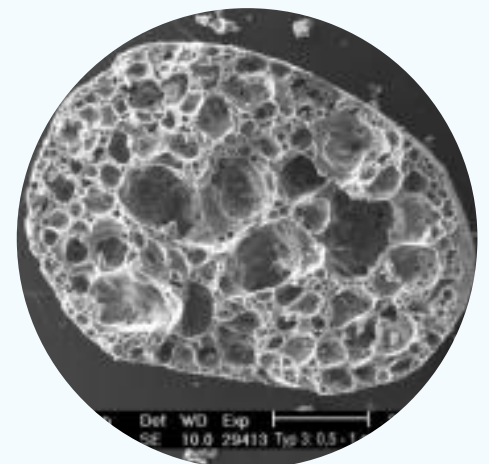
An electron microscope highlights the smooth closed outer shell and the uniform composition of the internal structure. These characteristics result in superior strength/density ratios, reduced water absorption and improved mix workability.



EGF22 Outer Shell



EGF22 Granule Cutaway



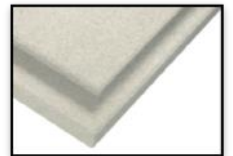
Competitor Granule Cutaway

MATERIAL PROPERTIES

Physical Properties			EGF22 100/300	EGF22 250/500	EGF22 500/1000	EGF22 1000/2000	EGF22 2000/4000	EGF22 4000/8000
Grain size	(mm)	EN 933-1	0.1 - 0.3	0.25 - 0.5	0.5 - 1	1 - 2	2 - 4	4 - 8
Loose bulk density	(kg/m ³)±15%	EN 1097-3	400	300	250	220	190	170
Particle density	(kg/m ³)±15%	DIN V 18004	700	540	450	370	310	300
Compressive strength	(MPa)	EN 13055-1	>3.5	>2.9	>2.6	>2.4	>2.4	>1.9
Chemical properties								
Chloride	(wt %)	DIN EN 1744-1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acid-soluble sulfate	(wt %)		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total sulfur	(wt %)		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Other properties								
Thermal conductivity	(W/(mK))	DIN 52612-1	-	-	-	-	0.07	0.07
Water vapour diffusion resistance, μ		DIN 52615	-	-	-	-	5	5
1h water absorption	(wt %)		1.06	0.88	1.59	1.71	0.55	1.3
24h water absorption	(wt %)		2.81	3.9	8.5	7.63	7.8	9.11
Fire classification		DIN 4102-4	A1					
VOC-class		DIN EN 717-1	A+					
Colour			Light Grey					
Softening Point			approx. 700 °C					
Material definition		EN 13055-1	Lightweight aggregate					

PRODUCT SELECTION TABLE

Application	EGF22	EGF22	EGF22	EGF22	EGF22	EGF22
Render	•	•	•			
Tile Adhesive	•	•				
Floor Screed			•	•	•	
Self Leveling Underlayment's	•	•				
Lightweight Concrete			•	•	•	•
Masonry Blocks			•	•	•	
Mortars			•	•	•	
Concrete Repair	•	•	•			
Panels/Boards		•	•	•	•	•
Resins		•	•	•	•	



PACKAGING

EGF22 is available in 1.5m³ and 2m³ big bags and 60L PE bags. [EGF22 100/300 and 4000/8000 not available in 60L bags.]

Notes: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. Crest Cormix Pty Ltd disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented.

Rev BHNov 2020