



Ultra-Lightweight foamed glass aggregates (UL-FGA) are produced from 100% recycled glass. The manufactured aggregate produces a material that is insulating, free-draining, non-absorbent, rot-, acid-, and chemical-resistant, and noncombustible. Application include lightweight embankments, load distribution platforms, insulating subgrade and backfill, and lateral load reduction behind retaining walls and structures.

AeroAggregates – FG-G15 Properties

PHYSICAL PROPERTIES ¹				
Bulk Density ²	240	kg/m ³	15	pcf
Compacted Density ³	265 – 310	kg/m ³	16.5 – 19.5	pcf
Particle Size ⁴	10 – 60	mm	0.4 – 2.4	inches
Shear Strength ⁵	Normal Stress	Peak Friction Angle	Peak Cohesion	
	up to 57.5 kPa (1,200 psf)	56°	2.1 kPa (43 psf)	
Angle of Repose	45°			
Permeability	4.4	cm/s	0.144	ft/s
Freeze/Thaw	Frost Resistant			
Capillarity	Anti-capillarity against rising water			
Resistance to Environmental Factors	Non-leaching, anti-aging, rodent-, bacteria-, and rot- resistant			
Fire Resistance	Incombustible			
Alkali Resistance	Long term stability, no damage to concrete			

¹ All values are approximate unless otherwise noted

² Uncompacted bulk density, maximum

³ Compaction factor generally varies between 1.1 and 1.3 based on compaction methodology

⁴ As received, prior to compaction

⁵ Typical values as reported by SGI labs and Drexel University

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