



Innovation with Purpose

SunPerl IM100 – Construction Grade exfoliated Perlite

Product description

CemteQ SunPerl Construction Grade Perlite is a medium-sized exfoliated Perlite supplied loose in 100 litre bags.

Composition

CHEMICAL ANALYSIS	
SiO ₂	72 – 74%
Al ₂ O ₃	12 – 14%
Fe ₂ O ₃	0.6 - 0.8%
K ₂ O	4 – 5%
Na ₂ O	1.5 – 3%



PHYSICAL PROPERTIES	
Loose Bulk Density (kg/m ³)	70 - 80
Compacted Bulk Density (kg/m ³)	80 - 100
pH	6.5 – 7.5
Moisture Content ^{a)}	0.05%
LOI ^{b)}	1.74%
Thermal Conductivity (W/m· K)	0.04 – 0.05
<i>a) Dried at 110°C for 1.5 hours</i>	
<i>b) Tested at 1100 °C for 1.5 hours</i>	

TYPICAL PARTICLE SIZE ANALYSIS	
Particle size (µm)	Mass Retained %
4750	0.2
3000	4.7
2000	26.9
1000	44.1
850	3.4
355	11.3
250	2.5
150	2.9
<150	4

Advantages

SunPerl Construction Grade Perlite is used as a lightweight, insulating aggregate in plaster and screeds for construction as well as for thermal insulation and fire protection.

Uses

- Thermal insulation
- Lightweight applications
- Fire-protection
- Acoustic insulation

Mass per bag	Typically 7-8kg
Volume per bag	100 litres
Bulk Density	Typically 70-80kg/m ³
Conductivity (W/m·K)	0.04-0.05
Product colour	White
Description of bag	White Polypropylene bag - stitched
Shelf Life	Indefinite. Handle with care as Perlite particles are fragile and are may be crushed under any weight resulting in a loss of performance.
Storage instructions	Keep in a dry place. Place on a raised wooden platform or on plastic sheeting to prevent rising damp.
Health and Safety	Exfoliated Perlite is non-toxic. When mixing with other materials, it is always advisable to wear suitable protective clothing including mask, boots, gloves and safety glasses. If contact with skin or eyes occurs, wash with water immediately. If irritation continues, seek medical advice. Please refer to the Material Safety Data Sheet (MSDS) prior to the use of this product. E-mail info@cemteq.com or call +27-11-824-4600 for a copy of the MSDS.
Environment	SunPerl IM100 is inorganic, non-toxic and environment-friendly. Please dispose of excess material responsibly and recycle the bags.
Disclaimer	CemteQ has no control over how this product will be stored, handled or used and therefore will not be held responsible for its performance.

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