

# Product Information

## Biscil 60

### Product Description:

Biscil 60 are lightweight, free flowing, light grey, inert and hollow silicate spheres. Biscil 60 has a high strength-to-density ratio, decreasing density and increasing buoyancy of a material making it a cost effective and water-resistant additive for many different applications. The spheres have high crush strength, pressure resistance, excellent thermal insulation properties, are low dusting and improve rheology.

### Applications:

Biscil 60 are extremely versatile for use as density-reducing agents in a wide range of applications including lightweight mortars, gypsum putties, insulation, self-levelling screeds and lightweight cementitious grouts. The spherical particle shape allows for an easier application and provides a smoother finish. It can be used in plastic, paint and coating industries.

### Specifications

Parameters (units)	Specifications
SiO <sub>2</sub> (%)	52 - 62
Al <sub>2</sub> O <sub>3</sub> (%)	30 - 36
CaO (%)	0.1 - 0.5
K <sub>2</sub> O (%)	1.2 - 3.2
Fe <sub>2</sub> O <sub>3</sub> (%)	1.0 - 3.0
TiO <sub>2</sub> (%)	0.8 - 1.3
MgO (%)	1.0 - 2.5
Na <sub>2</sub> O (%)	0.2 - 0.6
Gas content of hollow volume, approx. (CO <sub>2</sub> % , N <sub>2</sub> %)	70%, 30%
Specific gravity	0.75 - 0.85
Bulk density (kg/m <sup>3</sup> )	400 - 450
Hardness (Mohs)	5 - 6
Compressive strength (kg/m <sup>3</sup> )	180 - 280
Wall thickness (% of shell diameter)	5 - 10
Melting point (°C)	1200 - 1300
Thermal conductivity (W.m <sup>-1</sup> .K <sup>-1</sup> )	0.11
pH in water	6 - 7
Moisture (%)	≤ 0.5
Loss on ignition (%)	≤ 2
Sinkers in water (%)	≤ 5
Oil absorption (g/100g)	16 - 18
Retained on 500 µm sieve (%)	0
Retained on 250 µm sieve (%)	0 - 1
Retained on 150 µm sieve (%)	20 - 70
Retained on 106 µm sieve (%)	50 - 80
Retained on 63 µm sieve (%)	70 - 95
Passed through 63 µm sieve (%)	0 - 20

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## Packaging:

Material packaging options are available upon enquiry.

## Storage:

Product should be stored in a dry place away from direct sunlight in sealed, original packaging.

## Safety:

For further safety information refer to product SDS available from your Bisley International contact.

Disclaimer: This document is for information purpose only. Customers are responsible for testing and conforming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.

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