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FILLITE (MICROBALLOON)

DESCRIPTION:

Fillite cenospheres are lightweight, hollow, spherical, free-flowing, low density aluminosilicate microspheres used in many applications where these characteristics are critical to performance.

Extracted from pulverised fuel ash from coal-fired power plants, Fillite hollow aluminosilicate cenospheres or microspheres are a versatile lightweight filler with applications in a variety of industrial and commercial products.

The hollow spherical shape of microsphere ceramic glass results in a variety of applications except as a lightweight filler.

Fillite cenospheres are a filler used to replace minerals and resins, where the benefits can be as diverse as weight reduction, improved thermal insulation, reduced shrinkage, improved fire resistance or simply easier application.

Fillite cenospheres range from 5-500 microns. A variety of standard grades are available with very precise top cuts and particle size distribution ranges.

CHEMICAL PROPERTIES:

SiO ₂ :	55 - 65 %
Al ₂ O ₃ :	27 - 33 %
Fe ₂ O ₃ :	≤ 6%
CO ₂ (content in the bulbs):	70 %
N ₂ (content in bulbs):	30 %
Loss on ignition (1000°C):	≤ 2 %

PHYSICAL DATA:

Average loose bulk weight g/cc :	0.35-0.48
Colour:	Grey
Packaging factor %	60-65
Melting temperature °C	1200-1350
Typical crush strength psi:	1500-3000