

Fillite SG(500) - RN

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SHORT DESCRIPTION OF THE PRODUCT:

Fillite is a lightweight, free flowing, spherical, glass hard, inert, hollow silicate sphere. It is primarily used to reduce the weight of materials but also imparts further benefits in many applications such as filler loading and improved rheological properties as a direct attribute to their spherical shape.

CHEMICAL PROPERTIES OF SHELL & GAS:

SiO ₂	55.0 – 65.0 %
Al ₂ O ₃	27.0 – 36.0 %
Fe ₂ O ₃	≤6 %
CO ₂ content in the spheres	70 %
N ₂ content in the spheres	30 %
Loss on ignition (1000°C)	≤2 %

SPECIFIC PRODUCT DATA:

Fineness:	
· Passing 500 µm sieve (ISO 787/7)	99.5 – 100.00 %
· Passing 300 µm sieve (ISO 787/7)	85.0 – 100.0 %
· Passing 150 µm sieve (ISO 787/7)	30.0 – 80.0 %
· Passing 106 µm sieve (ISO 787/7)	25.0 – 55.0 %
· Passing 50 µm sieve (ISO 787/7)	2.0 – 10.0 %
Moisture ex works (ISO 787/2)	≤0.3 %
Colour – Grey	

GENERAL PRODUCT DATA:

Loose bulk density (ISO 787/11)	0.35 – 0.48 g/cc (27 lbs/ft ³)
Packing factor	60.0 – 65.0 %
Mohs Scale hardness of shell	5
Average wall thickness of sphere diameter	5.0 – 10.0 %
Melting temperature	1200 - 1350 °C
Thermal conductivity	0.11 Wm ⁻¹ K ₂ ⁻¹
Typical crush strength	(105 – 210 kg/cm (1500 - 3000 psi

The above tables contain average results for this product.

MAIN APPLICATIONS:

Refractories

Resins

Low Density Cements

Sound Dampening Sheets

Mortars & Grouts

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