

PRODUCT INFORMATION

Omya UK Limited
Melton Office
Melton Bottom
Melton
North Ferriby
East Riding of Yorkshire
HU14 3HU

Fillite SG(500) - RN

SITE: RUNCORN, Great Britain

Tel +44 (0) 1482 636800
Fax +44 (0) 1482 636880

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 – 33.0 %
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 ⁻¹
Typical crush strength	(105 – 210 kg/cm ² (1500 - 3000 psi

The above tables contain average results for this product.

MAIN APPLICATIONS:

Refractories
[Resins](#)
[Low Density Cements](#)
[Sound Dampening Sheets](#)
[Mortars & Grouts](#)

® Registered Trademark of the Omya Group

The information contained in the Technical Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information provided herein is based on technical data that Omya believes to be reliable, however Omya makes no representation or warranty as to the completeness of accuracy thereof and Omya assumes no liability resulting from its use or for claims, losses, or damages of any third party. Recipients receiving this information must exercise their own judgement as to the appropriateness of its use, and it is the user's responsibility to assess the materials suitability (including safety) for a particular purpose prior to such use.

edition : 27.02.2014
S08.03.01_EN_CORP\GBRN_I1005565_00
version : 6