



## PRODUCT INFORMATION

### Fillite 160 - RN

SITE: RUNCORN, Great Britain



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

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 <sub>2</sub>	55.0 – 65.0	%
Al <sub>2</sub> O <sub>3</sub>	27.0 – 33.0	%
Fe <sub>2</sub> O <sub>3</sub>	≤6	%
CO <sub>2</sub> content in the spheres	70	%
N <sub>2</sub> content in the spheres	30	%
Loss on ignition (1000°C)	≤2	%

#### SPECIFIC PRODUCT DATA:

Fineness:		
· Passing 300 µm sieve (ISO 787/7)	100.0	%
· Passing 180 µm sieve (ISO 787/7)	99.5 – 100.0	%
· Passing 106 µm sieve (ISO 787/7)	40.0 – 80.0	%
· Passing 50 µm sieve (ISO 787/7)	10.0 – 20.0	%
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 <sup>3</sup> )
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 <sup>-1</sup> K <sup>-1</sup>
Typical crush strength	) 105 – 210	kg/cm <sup>2</sup>
	) 1500 - 3000	psi

The above tables contain average results for this product.

#### MAIN APPLICATIONS:

Refractories  
PVC flooring  
Oil well cements  
Brake Linings  
Plastic and rubbers  
Synthetic foams  
Resins  
Low density cements  
Gypsum board joint compounds  
Sound damping sheets

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