Fillite®

PRODUCT INFORMATION

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Fillite 160 - RN

SITE: RUNCORN, Great Britain

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_2O_3	27.0 – 33.0	%
Fe_2O_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 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^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
Typical crush strength)	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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