

Genulite® M45

Genulite® M45 is an expanded perlite used for cryogenic insulation, loose fill insulation and in textured paints.

1. BULK DENSITY

Loose Fill	:	40 - 55 kg/m ³
Compacted	:	50 - 76 kg/m ³

(Maximum increase in bulk density on compaction: 38%)

2. SIEVE ANALYSIS (ex furnace)

<u>Sieve Aperture</u> (microns)		<u>Mass</u> (%)
On 1000	:	15 - 25
500 - 1000	:	25 - 40
250 - 500	:	20 - 35
< 250	:	15 - 30

3. MOISTURE CONTENT

Free moisture less than 0.5% by weight.

4. THERMAL CONDUCTIVITY (Cryogenic Application)

At atmospheric pressure with a hot face temperature of 32°C and a cold face temperature of 5°C, less than 0,043 W/m °C.

At atmospheric pressure with a hot face temperature of 20°C and a cold face temperature of -183°C, less than 0,028 W/m °C.

At atmospheric pressure of below 1 micron Hg, with a hot face temperature of 30°C and a cold face temperature of -196°C, less than 0,0025 W/m °C.

5. ATTRITION

48 hours rotation : maximum 8%

6. ANGLE OF REPOSE

Approximately 41°

7. COEFFICIENT OF FRICTION

M45 ON M45	:	0,69
M45 on 304 stainless steel	:	0,58

8. PACKAGING

100 litres when packed, approximately 4,5kg in paper bags or can be manufactured on site using our Portable Plant.