

Description and Application

This ultra lightweight, low density vermiculite powder has been thermally treated during manufacture, resulting in a completely inert product suitable for use as a fire retardant in both water based and non-water based systems. The thermal treatment removes all organic traces and the resultant powder is non-toxic, smoke free and is a safe to use and environmentally friendly product. DM428 has a carefully controlled particle size distribution ensuring consistency, which can be adjusted to suit individual requirements.

Typical Properties (Non-specified)

Chemical Analysis

Silicon as SiO ₂	39.4%
Magnesium as MgO	25.2%
Aluminium as Al ₂ O ₃	8.8%
Potassium as K ₂ O	4.5%
Iron as Fe ₂ O ₃	4.0%
Calcium as CaO	1.8%
Carbonate as CO ₂	1.4%
Titanium as TiO ₂	0.8%
Fluorine as F	0.5%



Physical Properties

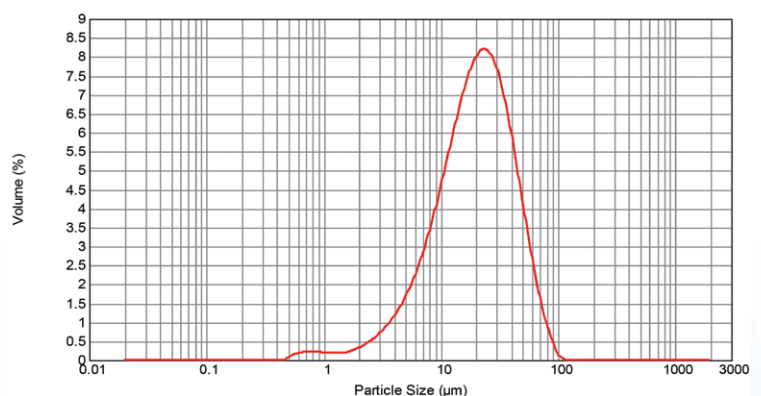
Melting Point (°C)	1330
Specific Heat (1kJ/kg.K)	1.08
Specific Gravity (Crude)	2.5
Moh's Hardness (Crude)	1 - 2
pH (ISO 787-9)	7 - 8
Loose Bulk Density	0.12 kg/litre

Typical Properties (Specified)

Particle Size Analysis by Laser Diffraction

d(0.9)	30-65µm
d(0.5)	10-32µm

Particle Size Distribution



Packaging

DM428 is packaged in 12.5Kg sacks and supplied on 500Kg pallets

08/01/2014

Information presented above is given in good faith as accurate and reliable but is not to be taken as a guarantee. The figures provided are intended to be a guide to expected average values and should not be interpreted as a specification. Any potential applications referred to are not to be construed as recommendations. It is the responsibility of the user to determine suitability for any specific purpose.

