Spec Sheet: Vermiculite Loose Fill Chips

Vermiculite is a 100% natural material that can be used for void fill. It is made from aluminium-iron-magnesium-silicates and consists of thin, flat flakes. Also known as Micafil, it is sold in 100 litre (3.5 cubic ft) bags of lightweight chips and it is a great alternative to polystyrene chips. This is a highly absorbent material, making it ideal for packaging containers of liquids or other items that may leak. It is also fireproof, so can be used to pack flammable and other hazardous goods. Vermiculite is lightweight and can easily be poured around irregular objects straight from a hopper or other dispenser.

- Mineral-based natural loose fill
- Lightweight & fibre free
- Fireproof & highly absorbent
- Suitable for packaging hazardous goods
- Numerous other uses, from plaster and cement to insulation and fireproofing

Specifications	
Grade	Large
Yield	13.0 – 14.5 m^3
Density	60 – 75 kg/m^3
Specific Surface Area	3.4 m^2/g
Absorption Capacity	280 ml of water 193 ml of 15/40 multigrade oil 183 ml of diesel oil 174 ml of heavy gear oil
pH Value	8.5 to 10
Mohs Hardness	1 to 2
Melting Point	Collapse and coalescence of the individual flakes begins at 1330°C
Ratio of Flake Diameter to Thickness	7:1 to 30:1

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Technical Features:

- Major Components: Silicon Dioxide 35 - 41%, Aluminium Oxide 6.0 - 9.5%, Iron Oxide 6.0 - 9.5%, Magnesium Oxide 21.5 - 25.5%, Potassium Oxide 3 - 6%
- Minor Components: Calcium Oxide 2.0 - 6.0%, Carbon Dioxide 0.6 - 2.5%, Titanium Dioxide 0.6 - 1.4%, Fluorine 0.2 - 0.8%, Chrome Oxide 0.01 - 0.15%, Phosphorus Pentoxide 0.2 - 2.0%, Chlorine 0 - 0.5%
- The concertina-shaped granules of exfoliated vermiculite are non-combustible as well as being insoluble in water and all organic solvents. Completely safe and easy to handle.

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