



VERMEX

Micron - SF - F - M - G

The product range **VERMEX SAC (BAG)** is composed with calibrated vermiculite flakes and classified by grade **Micron, SF** (super-fine), **F** (fine), **M** (medium) or **G** (large) and exfoliated by a thermal process.

Vermiculite is a mineral natural rock from mica group.

User application

VERMEX products are used for:

- Aggregates for industry particularly for coating (grout) and concrete (grade **Micron, SF** or **M**),
- Lightweight element for horticulture (grade **F, M** or **G**),
- Protection and system for packing wedging (grade **F, M** or **G**),
- As liquid adsorption element (grade **SF, F, M** or **G**).

Composition

Average composition of vermiculite before thermal process (percentage by weight)	Non exfoliated vermiculite
SiO ₂	40%
MgO	26%
H ₂ O	10%
Al ₂ O ₃	9.50%
K ₂ O	6.00%
Fe ₂ O ₃	6.00%
CaO	2.00%
TiO ₂	0.75%
F	0.60%
Cr ₂ O ₃	0.15%
P ₂ O ₅	0.06%
Cl	0.05%

Packaging

	VERMEX				
	Micron	SF	F	M	G
Labelling	Each bag is identified by printed manufacturing code				
Packaging	100 liters plastic bag Non-stackable wrapped pallet with 33 bags				
Bag's weight	10 - 12 kg	8 - 11 kg	7.5 - 10.5 kg	8 - 11 kg	6 - 8 kg
Storage	Upright on a flat surface and protected from bad weather and sunshine				



Characteristics

Characteristics	Performance						Technical Specification
	VERMEX						
	Micron	SF	F	M	G		
Physical state	Solid (in flakes)						-
Colour	Beige						-
Reaction to fire	Euroclasse A1						French Regulation of the 21 st November 2002*
Melting point	1330°C						-
Flake size (in % by weight of cumulative residue)	Sieve diameter (mm)						-
	+11	-	-	-	0	0-10	EN 933-1
	+8.0	-	-	-	-	45-55	
	+5.6	-	-	-	0-6	-	
	+4.0	-	0	0	10-45	80-95	
	+2.8	-	-	0-8	-	-	
	+2.0	0	0-2	-	65-96	80-99	
	+1.4	-	10-32	60-79	77-98	-	
	+1.0	0-30	37-81	-	-	-	
	+0.71	-	-	85-98	-	-	
	+0.50	70-90	80-97	89-99	-	-	
	+0.355	-	-	-	-	-	
	+1.80	96-99.5	-	-	-	-	
Bottom	100	100	100	100	100		
Bulk density (kg/m ³)	110±10	95±15	85±10	100±15	70±10	EN 1097-3	

*Material to be considered as reaction to fire Classes A1 without the need for testing (according to decision 96/603/CE modified by the decision 2000/605/CE and in the annex 3 in the French Regulation of the 21st November 2002 concerning fire reaction of construction products and planning).

Installation

- Aggregates for industry: refer to the operating instruction of the manufacturer,
- Lightweight element for horticulture: mix **VERMEX** with soil or the growing mix,
- Protection and system for packing wedging: pour **VERMEX** around the product to be protected, after placed in its transportation package,
- As liquid adsorption element: pour **VERMEX** on the liquid and take over the dirty elements.

Special indications

Hygiene, health and environment:

VERMEX is not classified as dangerous according to CLP classification. However, it generates dust. Please refer to the occupational exposure recommended limits and protect users accordingly (respiratory filter mask P1 rating recommended).

Concerning product scraps or batch remains: inert waste - reuse or disposal in a Inert Waste Storage Installation (ISDI - class III landfill).

Traceability:

Product traceability is ensured using the manufacturing mark: YY / N / DDD (Year / Production Team N°/ calendar Day).

Integrated QSE Management System:

VERMEX is manufactured and controlled under an integrated management of **Quality management system (ISO 9001), Environment (ISO 14001) and Health and Safety (OHSAS 18001) certified.**