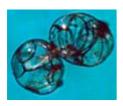


SAMSON KAMNIK d.o.o. KOVINARSKA C.28, SI-1240 KAMNIK, SLOVENIJA

Tel: (01) 83 17 255, (01) 83 19 260 Fax: (01) 83 17 179

E-mail: samson@samson-kamnik.si

MIKROSIL



Mikrosil microspheres is a lightweight filler, inert, inorganic, non toxic, hollow glass particles of various shapes, spherical and multicellular. They are obtained after processing a volcanic rock with a chemical structure very similar to a granite (quartz, feldspath, mica).

The grades are different by their particle size, their density and whether they are coated or not (depending on the finished product made by the user : powder or ready mix).

Packaging: the products are sold in bags, big bags or bulk.

MIKROSIL is offered in three main grades:

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:

	100 EC& E	200	EC & E	400 EC & E
Dry bulk density	110-120 kg/m3	-120 kg/m3 140-150 kg/m3		210-230 kg/m3
Effective particle density	0.18 g/cm3	0.26	g/cm3	0.38 g/cm3
		EC:	coated	E : not coated
Oil absorption (ASTM D -1485)		33/40 g/100 cc		
Alcalinity (ASTM D - 3100)		0.030		
Moisture		0 (at our		
Solubility		insoluble in water and solvents		
Surface pH		7.0		
Colour		White		
Thermal conductivity		0,36 W/m2 °K		
Melting point		1260 ° C		
Fire reaction		MO incombustible		

CHEMICAL PROPERTIES

SiO ₂	74.28
Al_2O_3	12.8
K ₂ 0	4.6
Na ₂ O	3.5
CaO	0.9
Fe ₂ O ₃	0.9
MgO	0.2
TiO ₂	0.1

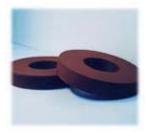
TYPICAL APPLICATIONS

		% Mikrosil	grade
Jointing Compounds & Plasters	Reduction of shrinkage less cracking (thicker coats) less sagging Easy to apply Reduction in drying time (lower need for water) Weight reduction Easy sanding Whiteness - Economical	6 to 10 %	200
Crack- Fillers	Reduction of shrinkage Easy to apply less cracking (thicker coats) less sagging Weight reduction Easy sanding Reduction in drying time (lower need for water) Whiteness - Economical	8 to 10 %	200
Tiles Adhesives	Reduction of shrinkage Easy to apply less cracking (thicker coats) less sagging Weight reduction Reduction in drying time (lower need for water) Whiteness	8 to 10 %	100 200
Cement- based Jointing Compounds sealing	Reduction of shrinkage Easy to apply less cracking (thicker coats) less sagging Weight reduction Reduction in drying time	3 to 6 %	MONTH IN THE PARTY OF THE PARTY
Culture marble (granules + calcium carbonate + resin)	Resistance to thermal shocks and impact Weight reduction Economical	3 to 5 %	100

Polyurethane and epoxy resins

- Tooling compound, Prototype parts
- Structural / Composite parts
- Modelling boards / paste
- Synthetic wood
- Synthetic marble
- Synthetic medial





Abrasives

- Abrasive Papers
- Grinding Wheels
- Ablative Blades
- Paints
- Pressure Sensitive Adhesives
- Car Underbody Sealants
- Low Pressure Laminations

Thermosetting Putty

- Marine
- Automotive
- Aerospace



Construction Materials

- Polymer Concrete
- Light Weight Concrete
- Building Insulation Panels
- Cultured Marble
- Low Pressure Mouldings
- Fibre Reinforced Plastics
- PVC Plastisols
- Acoustic Floorings
- Wood Fillers
- Patching Compounds
- Potting Compound

Sporting Goods

- Bowling Ball Cores
- Golf Ball Cores
- Racquets

Explosives - Dynamites

Oil Exploration

• Oil Drilling Cement

Electronics

• Micro-encapsulation