

Micosil®

FEATURES AND BENEFITS

The Micosil® range of products are manufactured as a finely milled and classified powder using silica quartz found in the pegmatite ore from our mining operation situated in the Limpopo Province in South Africa.

Micosil® offers high dry brightness, inertness and acid resistance, heat stability, UV resistance, hardness and scrub resistance, as well as ease of dispersion in oils and water-based formulations.

The main uses of Micosil® includes:

- ❖ As inert functional fillers in paints, coatings, sealants, mastics and grouts.
- ❖ In cement-based tile adhesives and mastics for co-reinforcing properties.
- ❖ As bulking agents in high-performance industrial coatings.
- ❖ Within ceramic slips, frits and glazes.
- ❖ In rubber and polyurethane compounds.
- ❖ In polishes and rubbing compound.
- ❖ In gypsum and plastic plasters and castings.
- ❖ Promoting strength, heat and acid resistance in thermosetting polymers.
- ❖ In acrylics, butadiene, vinyl-acrylics and urethanes.
- ❖ In varnishes and cured products.

DATASHEET REVISION

Revision Number	07
Revision Date	07/05/2019

CHEMICAL ANALYSIS

Mean values. These do not represent a specification.

SiO ₂	98.50 %
Al ₂ O ₃	0.80 %
Fe ₂ O ₃	0.05 %
K ₂ O	0.10 %
Na ₂ O	0.10 %
CaO	0.10 %
LOI	<0.50 %

PARTICLE SIZE ANALYSIS AND PROPERTIES

Mean values. These do not represent a specification.

		2	5	15
		Microsil 2	Microsil 5	Microsil 15
Trade Names				
% Retained @ 106 µm	% weight	N/A	** 0.0	** <3.0
% Retained @ 45 µm	% weight	N/A	** <3.0	N/A
% Retained @ 25 µm	% weight	** <1.0	N/A	N/A
Average Particle Size, d ₅₀	µm	10.6	17.1	20.9
Oil Absorption	%	29	23	21
Reflectance (Opacity Reflectometer)	%	95	94	93
Bulk Density (As Packed)	kg/litre	0.70	0.75	0.90
Specific Gravity	kg/litre	2.65	2.65	2.65
Hardness	mohs	7	7	7
Melting Point	°C	>1200	>1200	>1200
Packaging	1000kg bulk bags	Yes	Yes	Yes
	25kg packed bags	Yes	Yes	Yes

** Quality controlled by means of wet sieve analysis

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