

MicroTalc®

FEATURES AND BENEFITS

The MicroTalc® is a magnesium silicate mineral with a monoclinic crystal structure. It is characterised by its softness and platy or lamellar physical structure. When ground into a fine powder, this lamellar property gives a smooth, soapy feel.

Our MicroTalc® range offers very high dry brightness (whiteness) and acid resistance, heat stability, electrical resistance (dielectric strength), UV resistance and ease of dispersion in dry powder formulations.

The main uses of MicroTalc® include:

- ❖ In the manufacture of personal care products (e.g. soaps).
- ❖ As an inert reinforcing filler in paints, coatings, sealants, mastics and grouts.
- ❖ As an opacifier and pigment extender in paints, plastics and paper.
- ❖ As a pitch (or stickies) absorbent in the production of paper pulp fibre.
- ❖ In coated paper manufacture (providing gloss, finishing and reinforcement).
- ❖ As a pelleting and extrusion aid in food & feed manufacture.
- ❖ As a bulking agent and dispersive diluent in pharmaceuticals.
- ❖ As the base ingredient in talcum powder blends.
- ❖ As a fire-resisting component in ceramic products.
- ❖ As a reinforcing constituent in rubber and waterproofing compounds.
- ❖ As a fluidising agent in fire extinguisher powders.
- ❖ In polishes and rubbing compounds.
- ❖ Promoting strength, heat and acid resistance in thermosetting polymers.

DATASHEET REVISION

Revision Number	07
Revision Date	07/05/2019

CHEMICAL ANALYSIS

Range values. These do not represent a specification.

SiO ₂	58.0-60.0
MgO	30.0-31.0
CaO	1.0-1.7
Fe ₂ O ₃	0.5-2.0
Other	<1.0
LOI	<6.0
Asbestos	* NIL
Heavy Metals	* NIL

* Verified annually by external laboratories

PARTICLE SIZE ANALYSIS AND PROPERTIES

Mean values. These do not represent a specification.

		RB	TX	SR	SN	CA
Trade Names		Talc RB	Tioxsil	Talc SR	Snowtalc	Talc CA
% Retained @ 45 µm	% weight	** 2.0	** 0.0	** 0.0	N/A	N/A
% Retained @ 25 µm	% weight	N/A	** <1.0	** <1.0	** <10.0	** <10.0
Average Particle Size, d ₅₀	µm	10.3	8.6	8.6	12.1	12.1
Oil Absorption	%	40	42	42	36	36
Reflectance (Opacity Reflectometer)	%	94	92	90	90	80
Bulk Density (As Packed)	kg/litre	0.40	0.35	0.35	0.43	0.43
Specific Gravity	kg/litre	2.60	2.60	2.60	2.60	2.60
Hardness	mohs	1	1	1	1	1
Melting Point	°C	>900	>900	>900	>900	>900
Packaging: 500kg bulk bags		Yes	Yes	Yes	Yes	Yes
25kg packed bags		Yes	Yes	Yes	Yes	Yes

** Quality controlled by means of wet sieve analysis

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