

Talc

British sourced and produced



Talc

High quality British talc

LKAB Minerals mill our S2 talc products from a unique raw material talc magnesite which is sustainably quarried in Shetland; a beautiful island at the top of Britain.

Applications

LKAB Minerals talc products are 'off white' and therefore more suited for bulk application use where colour is not of importance. These applications include kiln furniture manufacture, ceramics, agriculture, roofing, some coating applications and plastics.

Coatings

Within the surface coatings industry S2 talc is used in a variety of industrial coating applications including primers and undercoats. Talc is used as a filler / extender as it imparts corrosion resistance and increases paint stability. Talc can be used in solvent and waterborne paint applications.

LKAB Minerals have developed a talc product specifically for the coatings industry. Talc S20 is suitable for use in anticorrosive and marine coatings. This 40% magnesitic talc will provide a barrier effect reducing oxygen and water transmission to the substrate. The S20 talc product improves weathering resistance and reinforces the coating making it a viable alternative to other talc products.

Agriculture

In agricultural applications S2 talc's anti-caking properties and lubricity make it effective for free flow carrier uses. Used in fertiliser talc can be used as an anti-blocking agent which enables the feed cake to be broken up easily. Using S2 talc as an anti-caking agent in animal feed improves fluidity especially in mixes where molasses are used. As talc is inert it is the preferred choice for animal feed; it also prevents the growth of bacteria in feedstock.

Ceramics

S2 talc is used in ceramics because of its high fusion point being used as a low expansion flux in ceramic bodies and glazes. The low level of shrinkage talc imparts helps to improve craze resistance in ceramic applications.



Talc for kiln furniture
Talc has excellent refractory properties.

Standard grades

Typical properties of the S2 talc grades are:

Grades	Particle size						Moisture % max	Oil Absorption ml/100g
	Dry sieving / Sedigraph (min % passing)							
Size (microns)	150	75	53	45	20	10		
S2 100#	98		64	19	10		1	23
S2 200#	99.9	98	87		38	23	1	25.5
S2 300#	99.9		98		47	30	1	30.5
S20			99.9				1	45

Special properties

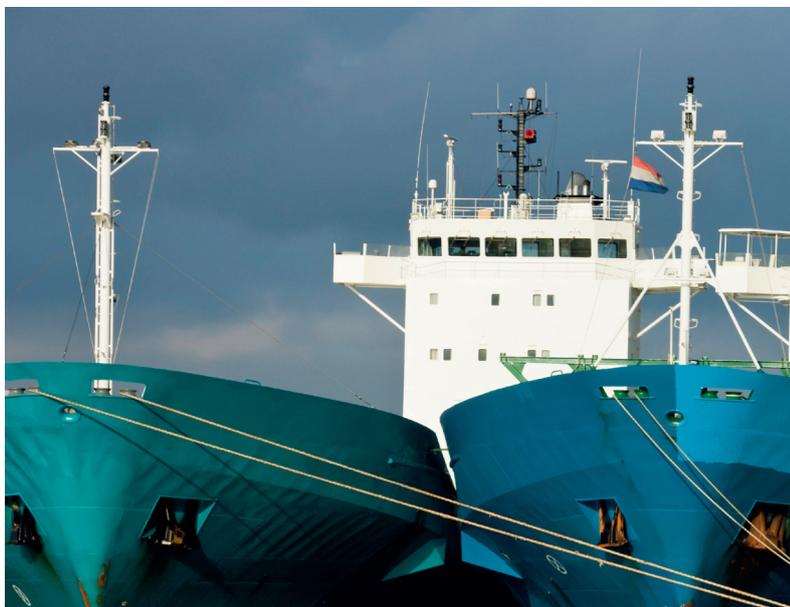
Talc occurs mainly in metamorphosed ultra basic rock, it is a soft hydrous magnesium silicate mineral. The term talc covers a range of these minerals from pure magnesium silicate to talc magnesite which contains up to 33% MgO.

The S2 talc range chemical composition is as follows:

Chemical analysis	% by weight
Silicon as SiO ₂	30.2
Magnesium as MgO	33.3
Loss on ignition at 1000°C	25.9

Physical properties

Specific gravity	2.8
Refractive index	1.62
Mineralogy	Magnesitic talc
Colour	Brown
Colour value L*	88
Colour value b*	4
Loose bulk density	0.6
Tamped bulk density	1.1
Moisture	0.2



Preventing corrosion

Talc imparts corrosion resistance to coatings which require durability and toughness in their service life environment.

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LKAB Minerals is an international industrial minerals group with a leading position in a number of product applications. We develop sustainable mineral solutions in partnership with our customers, supplying natural minerals engineered for functionality and usability. LKAB Minerals is part of the Swedish company LKAB, one of the world's leading producers of highly upgraded iron ore products and other related mining services and products.

Value driven

We are proud and passionate about what we do – this is reflected in our values Committed, Innovative and Responsible.

Our promise

In line with our vision, we promise to deliver Mineral Solutions for Our World. 'Mineral Solutions' meaning we together with you identify or develop the right service and product for your application and operations.

For 'Our World' our focus will be on selected applications where we have developed extensive expertise and where we can use our mineral technology and processing skills to generate more customer value. 'Our World' also meaning that we accept responsibility for the environment and our surrounding societies and that we therefore operate with a clear sustainability focus.



Information presented is intended for guidance only and given in good faith but without guarantee.

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