



SOAPSTONE



Galaxy Global manufactures & supplies high-quality Soapstone, a metamorphic stone composed of mineral Soap Stone rich in magnesium. Soapstone, popularly known as soap rock, has been used as carving medium since thousands of years. It is formed due to sinking of one tectonic plate below the other, which results in influx of fluid with the rock, due to high pressure and heat but without melting. Soapstone fits amazingly well, as material used in housing & furnishing, from rustic old farmhouses to contemporary classic urban homes. Soapstone give an extensive choice to consumers in form of floor tiles, attractive kitchen tops, sculptures, sinks and inlaid carvings. It is a cost effective solution in case you want to skip marble or granite owing to tight budget restrictions. Galaxy Global Soap Stone's wide range of Soapstone is just the perfect addition to your dream house to give it that warm, soft and minimal look. That chic nest pad for you and your family might be just a click away!!

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WHAT IS IT?



COMPOSITION AND PROPERTIES

The major component of soapstone is Soap Stone while small amounts of iron and chromium oxides, amphiboles and chlorite are found in traces. By mass, it contains approximately 63% Silica, 31% Magnesia, 4% water and traces of other oxides like Calcium Oxide, Aluminium Oxide etc.

Due to higher percentage of Soap Stone, Soapstone, is soft durable and feels like soap when touched. It is heat and electricity resistant, thereby, making it an apt material to be used as an insulator for electrical as well as housing components. Depending upon the mineral content, Soapstone comes in various hues and colours like green, black, grey, greyish blue etc. During fabrication, Soapstone can be oiled to give off a richer dark look.

TYPES OF SOAPSTONE

Soapstone is classified into two types depending upon the percentage of Soap Stone found in it. The one, containing high percentage of Soap Stone, artistic grade Soapstone, while the other one having lower Soap Stone percentage is, architectural grade Soapstone. Because of higher Soap Stone percentage, artistic grade **Soapstone** is softer and apt for carvings and sculptures. The architectural grade soapstone is tough, durable and widely used in homes.

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So the next time you want Soapstone in your house, do not forget to enquire about its grade and Soap Stone percentage.

USES

Depending upon its type, Soapstone is used for a variety of purposes like counter tops and sinks in kitchen, coasters, sculpture, in laid designing of houses etc. In some parts of the world Soapstone is used to make bowls, cooking slabs and utensils etc. In cold countries, Soapstone is popularly used in making counter tops above fireplace due to its high heat resistance. In India, Soapstone is widely used as a carving medium and architectural purposes like shower bases, sinks, counter tops, floor tiles etc. Many artisans use Soapstone to make wine glasses, cooking utensils, pots & pans, bowls, vases, jewellery boxes, and statues etc.

APPLICATION OF SOAP STONE POWDER

In Plastics:-

Soap Stone is an excellent reinforcing filler in polypropylene and engineering thermoplastics for automotive parts, domestic appliances, E&E components and food packaging. They are used for antiblocking in polyethylene, restore mechanical properties to recycled plastics and are ideal nucleating agents in biopolymers and semi-crystalline polymers. The Soap Stone manufactured by Galaxy Global possesses High Purity, Excellent Whiteness and Brightness, Lamellar Structure, excellent mechanical property, improves scratch resistance and HDT, minimizes the shrinkage as compare to conventional grinding , Silica Free and minimum iron content. Some of our specialized grades offer excellent transparency.

Paint & Coating:-

Soap Stone is an ideal multi-functional pigment, filler and extender in water borne, solvent borne and powder-coat based architectural and industrial paints, where they improve mechanical properties, optical properties and production processes. They also bring benefits to color concentrates, enamels, varnishes, gel coats, inks, putties, body fillers, mortars and

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asphalts. Our ultrafine grades of Soap Stone also help to partially replace TiO₂, Improve water, alkali & stain resistance and give excellent colour and brilliance to paint. Our Soap Stone also helps in Controlled oil absorption and viscosity.

In Paper:-

Our Soap Stone is highly lamellar and soft having 1 on the Mohs hardness scale. This natural property provides a series of benefits in papermaking and recommended to use as filler and pitch control. As filler it gives excellent smoothness, porosity and opacity to paper in addition to reducing the cost. As compared to GCC it is less abrasive so it increases the wire and felt life. Also to control Pitch and Stikies during the paper making process.

In Ceramics & Engineered Stones:-

Soap Stone can be used in the manufacturing of ceramic products such as bathroom fixtures, ceramic tiles, pottery and dinnerware. When used as a filler in ceramics, Soap Stone can improve the firing characteristics of the greenware and the strength of the finished product. Being used as a flux agent for glaze with low iron content, reduces the melting point of ceramic glazes and improves their vitrifications. When used as a flux agent for ceramic by reducing the process temperature and the firing time, Soap Stone reduces the processing costs. Soap Stone Produced by Galaxy Global has Low Iron Content, Optimum after firing whiteness and Unique morphology of our Soap Stone offers excellent mechanical property and better dimensional stability.

In Ink & Pigment:-

Our Soap Stone enhances the performance of inks and makes for an ideal filler and extender in water-borne and solvent-borne inks. Soap Stone produced by Galaxy Global has High purity combined with excellent whiteness and Precise particle size distribution, Increased dry hiding and opacity, Makes cost effective TiO₂ extenders reducing costs, Increases ink transfer, results in a clean print, Decreases clogging, Provides good adhesion to ink films, Reduces blade wear.

In Rubber:-

Soap Stone being used in rubber threads , sheets, seals, hoses, membranes, cables, stoppers and tires to improve processing, impermeability, weathering, electrical properties, fire

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resistance and mechanical properties. Soap Stone improves the dispersion of reinforcing fillers, reducing mixing time. Soap Stone produced by Galaxy Global has High Purity, Excellent Whiteness and Brightness, Mechanical properties, Useful as a Partitioning agent, Permeability barrier, Processing aid and Synergism with carbon black.

SPECIFICATIONS

<u>PRODUCT</u>	<u>SOAP STONE POWDER</u>
Rates in INR Per Tonne:	2700 To 12500
Particle Size:	200 to 1250 mesh
State:	Powder
Whiteness:	81% to 97%
Brightness:	78% to 96%
Purity:	99 %
Silica as SiO₂:	62%
Magnesium Carbonate as MgCo₃:	31%
Alumunium Oxide as Al₂O₃:	4%
Ferrous Oxide as Fe₂O₃:	1.40%
Calcium oxide as CaO:	1.50%
Magnesium Oxide as MgO:	0.3
CaCl₂:	1-0.32
Other Oxides	1.50%
Appearance/Color:	white
Molecular Formula:	C₂₇H₄₄O₃
Grade Standard:	Industrial Grade
pH Value:	8.5-9.3
Refractive index:	n_α = 1.538 – 1.550
Specific Gravity:	n_β = 1.589 – 1.594
Loss on ignition:	6%
Moisture:	0.5
Solubility:	n_γ = 1.589 – 1.600
Hardness:	1 Mohs

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Water Absorption:	30-35%
Surface Area:	3 - 6 m²/gm
Ash:	3%
Crystal habit:	Foliated to fibrous masses, rare as platy to pyramidal crystals
Crystal system:	Monoclinic or triclinic[2]
Cleavage:	Perfect on {001} basal cleavage
Fracture:	Flat surfaces (not cleavage), fracture in an uneven pattern
Tenacity:	Brittle
Luster:	Waxlike or pearly
Streak:	White to pearl green
Diaphaneity:	Translucent
Optical properties:	Biaxial (-)
Birefringence:	$\delta = 0.051$
Pleochroism:	Weak in dark varieties
Ultraviolet fluorescence:	Short UV=orange yellow, long UV=yellow
Odor:	Odorless
Lumps:	Yes

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OUR PRODUCTS:

DOLOMITE || CALCITE || SOAP STONE || CHINA CLAY ||
CALCIUM CHLORIDE || CALCIUM CARBONATE || MARBLE CHIPS

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