



## SPECIFICATIONS

<u>PRODUCT</u>	<u>SOAP STONE POWDER</u>
<b>Rates in INR Per Tonne:</b>	<b>2700 To 12500</b>
<b>Particle Size:</b>	<b>200 to 1250 mesh</b>
<b>State:</b>	<b>Powder</b>
<b>Whiteness:</b>	<b>81% to 97%</b>
<b>Brightness:</b>	<b>78% to 96%</b>
<b>Purity:</b>	<b>99 %</b>
<b>Silica as SiO<sub>2</sub>:</b>	<b>62%</b>
<b>Magnesium Carbonate as MgCo<sub>3</sub>:</b>	<b>31%</b>
<b>Alumunium Oxide as Al<sub>2</sub>O<sub>3</sub>:</b>	<b>4%</b>
<b>Ferrous Oxide as Fe<sub>2</sub>O<sub>3</sub>:</b>	<b>1.40%</b>
<b>Calcium oxide as CaO:</b>	<b>1.50%</b>
<b>Magnesium Oxide as MgO:</b>	<b>0.3</b>
<b>CaCl<sub>2</sub>:</b>	<b>1-0.32</b>
<b>Other Oxides</b>	<b>1.50%</b>
<b>Appearance/Color:</b>	<b>white</b>
<b>Molecular Formula:</b>	<b>C<sub>27</sub>H<sub>44</sub>O<sub>3</sub></b>
<b>Grade Standard:</b>	<b>Industrial Grade</b>
<b>pH Value:</b>	<b>8.5-9.3</b>
<b>Refractive index:</b>	<b>n<sub>α</sub> = 1.538 – 1.550</b>
<b>Specific Gravity:</b>	<b>n<sub>β</sub> = 1.589 – 1.594</b>
<b>Loss on ignition:</b>	<b>6%</b>
<b>Moisture:</b>	<b>0.5</b>
<b>Solubility:</b>	<b>n<sub>γ</sub> = 1.589 – 1.600</b>
<b>Hardness:</b>	<b>1 Mohs</b>

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

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