

**Kwark<sup>®</sup> GS** is a high performance silica aerogel granule developed and produced by Enersens. This innovative granule is ideal for those looking to develop high thermal performance renders, plasters or mortars and high added value products. The exceptional properties of Kwark<sup>®</sup> allow it to be used for building and construction applications, offering functional advantages such as high thermal insulating, improving thermal comfort, eliminating thermal bridges, improving energy efficiency, fire resistance and prevention of condensation and humidity.

### Advantages

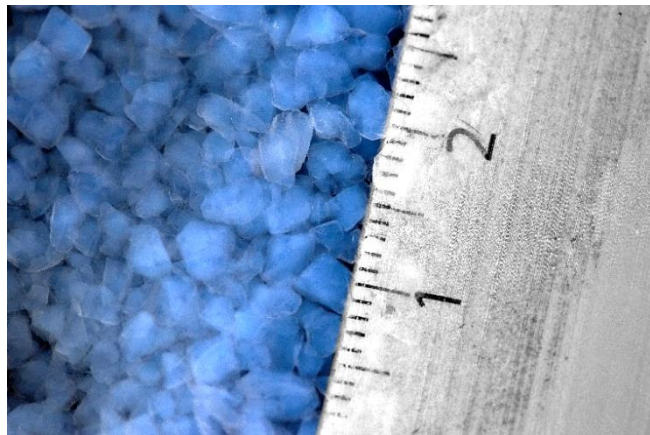
Ultra-low thermal conductivity

Hydrophobic and breathable

Lightweight

Translucent material

Non-flammable and durable material



### Main characteristics

<b>Thermal conductivity (intrinsic) at P<sub>atm</sub></b>	13 mW/m.K <sup>-1</sup> at 20°C
<b>Operating temperature (to keep hydrophobicity)</b>	-195°C to 450°C
<b>Operating temperature (to keep insulation in dry atmosphere)</b>	-195°C to 800°C
<b>Particle size range</b>	From 10 to 1250 µm
<b>Apparent density</b>	60 to 90 kg/m <sup>3</sup>
<b>Acoustic property (500-6400 Hz frequency)</b>	+ 50% of absorption coefficient
<b>Surface chemistry</b>	Hydrophobic - Corrosion resistant
<b>Pores diameter</b>	5 to 12 nm
<b>Mercury porosity</b>	90 to 98%
<b>Specific surface (N<sub>2</sub> BET)</b>	750 to 950 m <sup>2</sup> /g
<b>pH stability range</b>	3.0 to 6.5 *
<b>Minimum ignition temperature</b>	470°C
<b>Heat capacity at 20°C (C<sub>p</sub>)</b>	1582 J/kg.K <sup>-1</sup>
<b>Resistivity</b>	5.9x10 <sup>13</sup> Ω.m
<b>Emissivity</b>	0.93

\* for values out of range contact us