

JIOS AeroVa[®] Aerogel Powder (D20 Grade)

Technical Data Sheet

JIOS AeroVa[®] Aerogel Powder is the ultimate additive choice for applications requiring thermal performance, fire resistance, high operating temperatures and hydrophobicity.

JIOS AeroVa[®] is cost effective and the tightly distributed particle sizes are excellent for use in diverse markets such as building and construction, aerospace, automotive, energy, cosmetics, performance textiles and general industrial applications.

Key Performance Attributes:

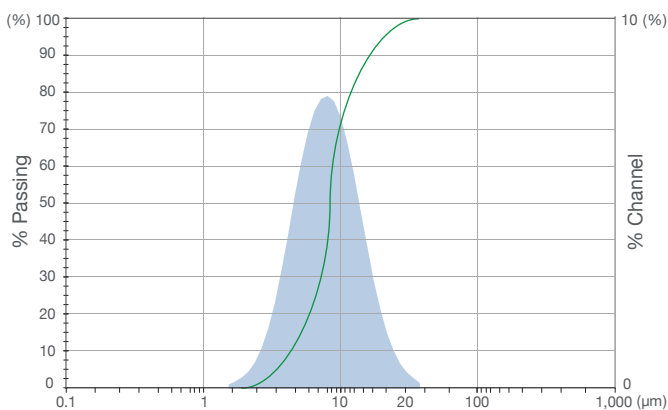
- Low thermal conductivity
- Superhydrophobic
- Wide operating temperature range
- High resistance to shear
- Ultra low density

JIOS AeroVa[®] Properties

Color	White
Particle Size Range	<20 μm [D95]
Pore Diameter	~20 nm
Bulk Density	0.03 ~ 0.1 g/cm ³
Surface Chemistry	Superhydrophobic
Thermal Conductivity	0.017 ~ 0.022 W/m·k
Surface Area	600 ~ 800 m ² /g ²
Porosity	> 90%
Temperature Range	-200°C ~ 1,600°C

JIOS AeroVa[®] Particle Analysis

JIOS AeroVa[®] (D20 Grade) has a very tight d95 distribution within <20 μm [D95]

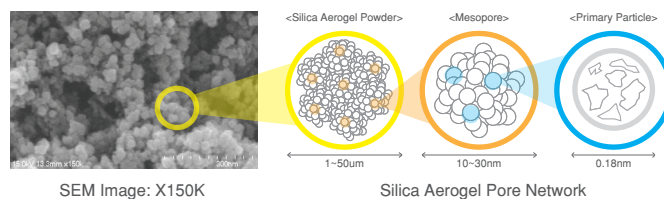
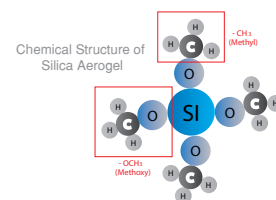


* Test conducted by KRICT in 2013

JIOS AeroVa[®] Aerogel Powder

Structure

- 3D Network Structure (SiO₂)
- High Porosity > 90%
- Open Pore Network



JIOS AeroVa[®] Applications

Applications

Silica Aerogel can be utilized in numerous applications

- Coatings - Insulation / Fireproof / Waterproof
- Blankets
- Tapes / Films
- Textiles
- Cosmetics
- Plaster
- Plastics / Masterbatch
- Compression Molding
- Cement and Perlite composites



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