



## Levron Aerogel Granules and Powder (IPG 1000 Series) Technical Data

Levron IPG1104, IPG1106, IPG1108, IPG1110, IPG1120, Technical Data

Levron Aerogel Granules and Powder with synthetic, porous and lightweight structure shows more exceptional performance than conventional insulation materials. At lower thicknesses, it is possible to reach higher thermal insulation levels. In addition, it is stable in contact with water or fully resistant to moisture, making the same performance stable during its lifetime.

Levron Aerogel Granules and Powder's unique properties; extremely low thermal conductivity, superior flexibility, compression resistance, hydrophobicity.

### GENERAL PROPERTIES

- Low Thermal Conductivity Coefficient
- Resistance to Thermal Shocks
- Very Low Thermal Expansion Coefficient
- Super Hydrophobicity
- Low Density
- Oleophilic
- Long Life
- Suitable for Cryogenic Applications
- High Temperature Resistance
- Fire Resistance
- Save on Maintenance Costs
- Save on Transportation Costs
- Environmentally Friendly Building
- Low Integration Cost
- Prevents Bacterial and Mold Growth

### PHYSICAL PROPERTIES

- Working Temperature : -200C, +650 C
- Density: 100-150 kg/m<sup>3</sup>
- Heat Conductivity Coefficient: 0,016 W/mK
- Porosity %90-95
- Color : Transparent
- Vapor permeability: 5-5.5 mu
- Fire Class: A1
- Heat Capacity: 1000 J/kg/K
- pH: 8
- Product Part Size: 2-4 mm, fine powder
- Product Shape : 0-4 mm granules and powder



**PRODUCT APPLICATIONS**

Levron Aerogel is applied in many industrial areas because of its thermal performance, flexibility, environmental friendliness and ease of use. It is unrivaled in the insulation of pipes, ships, tanks and equipment.

- Thermal Insulation; buildings, aviation, military and civil vehicles, pipelines, packaging,
  - Electronic Components; condensers, humidity sensors, batteries, fuel cells, non-rigid magnets, Geiger counter, IR detector,
  - Foundry Technology; aerogel granules for foundry sands,
  - Architecture; lighting, super light concrete, wall insulation,
  - Superlight composites,
  - The non-linear optic field used in advanced lasers, interactions between materials, Information and Communication Technology,
  - Cosmetics,
  - Medicine and pharmacy,
  - Apparel & Sportswear; skiing suits, military suits, tennis rackets, security shoes, sport shoes,
  - Space; space suits, anti-sloshing in tanks, cryogenic tank insulation,
  - Marine products,
  - Anti radar coatings,
  - Thermostatic products,
  - Protection of explosives
- and hundreds of topics in many areas.

**INSTALLATION**

Levron Aerogel Granules and Powder, increases productivity and reduces costs with short installation time. In addition, Levron's customers save a lot of time and money by using a number of mounting techniques. Levron Aerogel has designed the production lines to produce the most suitable product for the customers.

**AVAILABILITY AND PACKAGING**

Levron Aerogel Granules and Powder is packed in 1 kg, 10 kg and 50 kg carton boxes in different sizes depending on order size. It is delivered on pallets of 1220 x 1070 mm.

**TYPE**

High Temperature Insulation 0-4 mm Levron Aerogel Granules and Powder