



## AEROGEL BLANKET Technical Document

### EXPLANATION

- ETA-23/0941
- 650°C (1202°F)

- Reduces the risk of corrosion (CUI)



With its porous and light structure, Vizyon-Levron Aerogel shows an extraordinary performance compared to traditional insulation materials. High thermal insulation levels can be achieved with low insulation thicknesses. In addition, it is super repellent in contact with water and can maintain the same performance throughout its lifetime. Vizyon-Levron Aerogel is a high temperature resistant insulation product made of silica aerogel.

### AEROGEL BLANKET USAGE AREAS

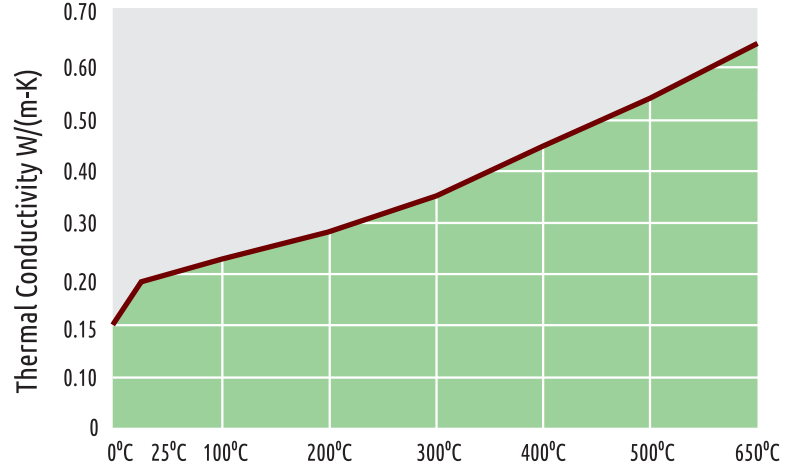
- Petrochemical Facilities
- Pipe and boiler insulation in factories
- Thermal insulation of land and air vehicles
- Refrigerated vehicles
- Internal insulation of small devices
- Cryogenic applications
- Hot and cold water tanks
- Insulation of high temperature furnaces
- Roof insulation
- Floor insulation
- Wall insulation; between bricks or panels
- Fuel tanks

### AEROGEL BLANKET ADVANTAGES

- Low Thermal Conductivity Coefficient
- Resistant to Thermal Shocks
- Very Low Coefficient of Thermal Expansion
- Super Hydrophobic
- Low Density
- Easy to Process
- Oil Absorbent (Oleophilic)
- Long-lasting
- Suitable for Cryogenic Applications
- High Temperature Resistant
- Impact Resistant
- Fire Resistant
- Saves Maintenance Costs
- Saves on Transportation Costs
- Environmental Friendly

## THERMAL CONDUCTIVITY

Average Temperature °C	W/(m-K)
0 °C	0.016 W/(m-K)
25 °C	0.020 W/(m-K)
100 °C	0.023 W/(m-K)
200 °C	0.027 W/(m-K)
300 °C	0.035 W/(m-K)
400 °C	0.044 W/(m-K)
500 °C	0.055 W/(m-K)
650 °C	0.066 W/(m-K)

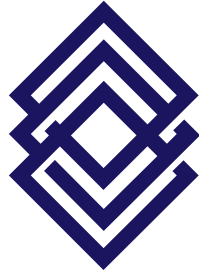


## PHYSICAL PROPERTIES

THICKNESS	6 - 10 mm
ROLL SIZE	20 m <sup>2</sup> 10 m <sup>2</sup>
WIDTH TOLERANCE	1.000 - 1.200 mm
MAX. USE TEMP.	650°C (1202°F)
COLOR	White and Black
DENSITY	180 ile 230 kg/m <sup>3</sup>
HYDROPHOBIC	Yes

## LEVRON-VIZYON AEROGEL INSULATION BLANKET PERFORMANCE FEATURES

DETAILS	RESULTS
Estimation of Maximum Usage Temperature	650°C (1202°F)
Flexibility of Blanket Insulation	Flexible
Water Vapor Sorption	Wp [kg/m <sup>2</sup> ] ≤ 2,39
Fire Reaction Class	A2-s1, d0
Tensile Strength on Vertical Surfaces	13,04 kPa
Pressure Resistance	≥ 5 kPa
Compressive Stress or Compressive Strength	80 kPa



**Levron**  
Consumable Aerogel

**VIZYON**<sup>®</sup>  
ENDÜSTRİYEL

**Vizyon İnovatif Yalıtım Enerji Müh. Ltd. Şti.**

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