



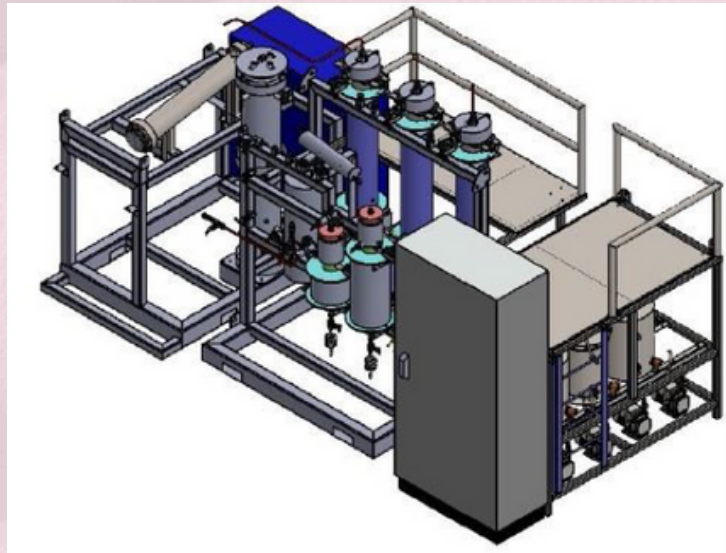
LCHP INSULATIONS LLP

AEROGEL PRODUCT'S

- **Proprietary Technology**
- **Manufactured to meet application specific requirements**



LOW CONDUCTIVITY HYDROPHOBIC (LCHP) INSULATION PORTFOLIO



Thermal and Cryogenic Applications:

- **Process Plants**
- **Thermal Runway Management**
- **LNG/Hydrogen Storage and transmission**
- **Additives in high performance paints and coatings**

LCHP Insulations LLP is incorporated with vision of energy conserving and sustainable solutions for critical insulation applications. Our team has undertaken extensive research to indigenously develop proprietary Aerogel products to meet the industry requirements.

lchpaerogels.com

LCHP ADDITIVES

High performance insulation/catalysts to boost thermal, fire and hydrophobic properties



Properties	Values
Lose Weight Density	0.07 - 0.08 g/cm ³ \equiv 70-80 kg/m ³
Tapped Weight Density	0.11 - 0.12 g/cm ³
Colour	White
Moisture Content	< 0.01 %
Thermal Conductivity	0.012 - 0.014 W/m ² k
Porosity	> 95 %
Hydrophobic Contact Angle	> 120 deg
Softening Point temp	> 1000 C
Particle Size	<10 μ m
BET Specific Surface area	600 - 700 m ² /g
Specific Heat	1.3 J/Kg k
Fire Resistance	A-1 Fire classification
Fire Nature	Non-combustible
Surface Chemistry	Hydrophobic or Hydrophilic variant

Microporous Insulation Blanket

LCHP 650/Cryo

Thermal and Cryogenic Insulation Capability

Technical
Data
Sheet

LCHP-650/Cryo is a highly porous, low density, lightweight fibre reinforced aerogel based thermal insulation product that is manufactured through a special process.

Properties

Thickness:	3/5/10/15mm thk variants
Roll Size:	1.2m wide x 10m length ≡ 12 Sq.m.
Dimensional Tolerance:	- + 2 mm
Thermal Conductivity:	0.0195 W/m.K @ 25 deg C
Max Use Temperature:	-180 to + 650 deg C (LCHP 650) -180 to + 1000 deg C (LCHP Cryo)
Color:	White
Density:	160-180 Kg/cubic meter (+- 10%)
Hydrophobicity:	Yes
Fire Classification:	A1 Class

Working with LCHP Blankets endorse:

- Highest efficacy thermal and cryogenic insulation solutions
- Less Heat Losses
- Ergonomically lean assembly
- Meeting HSE norms
- ROHS complaint
- System energy conservation
- Reusable after inspection
- Reduces Operational Cost
- Reusable and long service life
- Mitigate CUI
- Sustainable alternative

All specifications are indicative as per tests conducted in accredited NABL labs

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