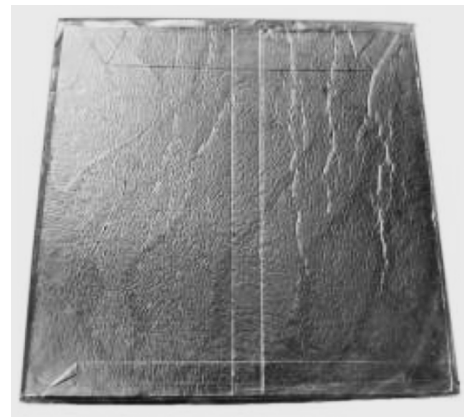
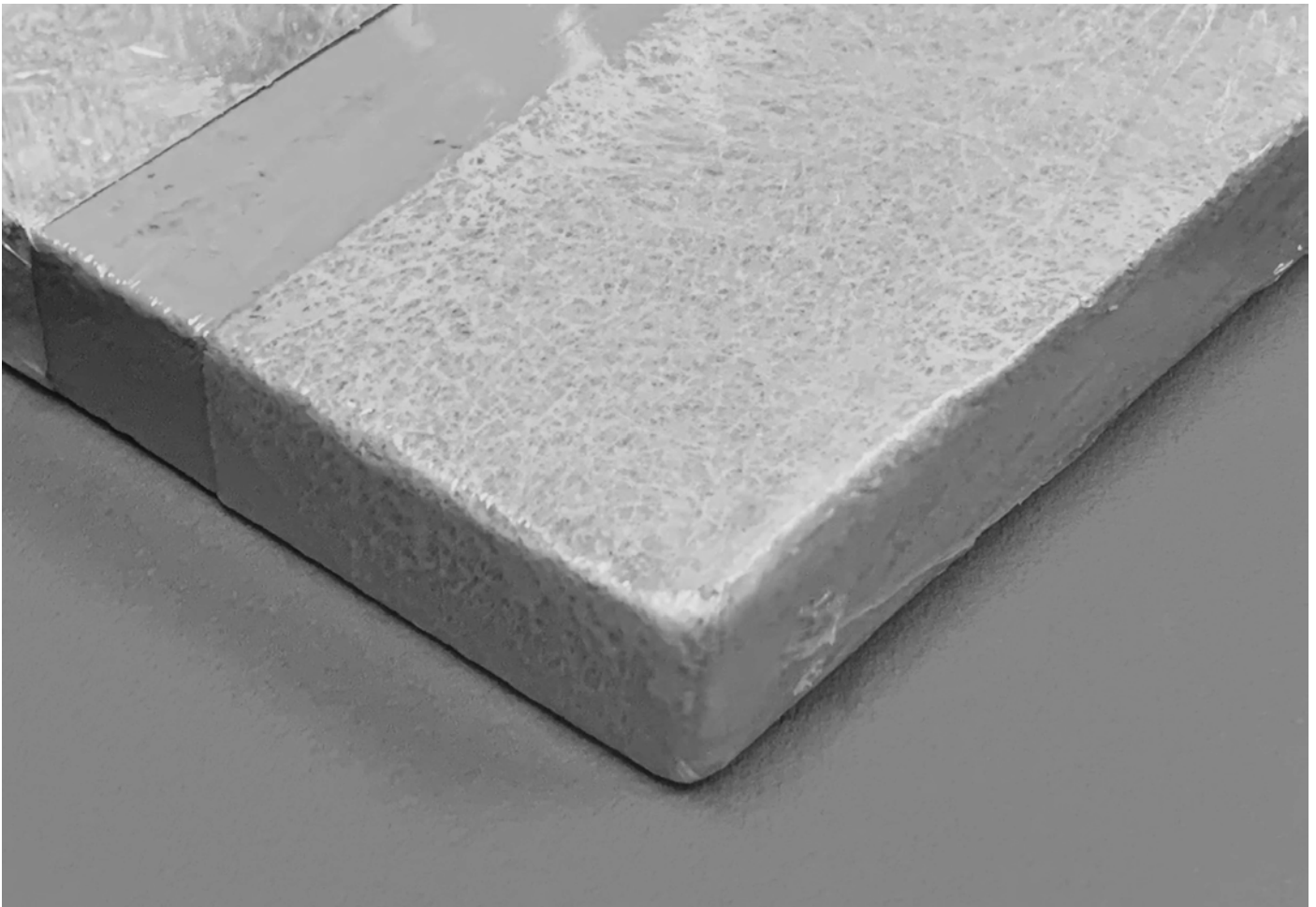


Wedge India

High Vacuum Insulation Products

Composite Panels | Fumed Silica | Microporous



WEDGE HVI-VIP | High Vacuum Insulation Products

Wedge HVI-VIP are very high insulation boards manufactured with high quality microporous core encapsulated and vacuum sealed in impermeable high gas barrier film under vacuum. The core material is fire resistant fire class A1 noncombustible Fumed Silica board and an opacifier to block the infrared radiation. These boards are available in ready to use sizes only.

Applications

- Vacuum Flask, Cool Devices, Refrigerators and freezers
- Temperature controlled packaging or Thermal packaging (Medicine transport boxes, etc.)
- Appliance (Water boiler, etc.)
- Automotive (train, ship, airplanes, etc.)
- Building Insulation: Facades, Walls, Floor & Roof, Doors, Windows Insulation, Cold storages, and cold rooms.

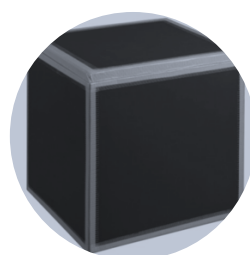
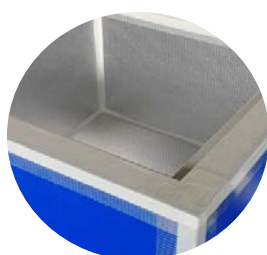
Advantage

- Highest insulation material thermal conductivity $< 0.004 \text{ W/mK}$.
- Lowest heat loss and highest barrier to heat penetration into cold environment.
- Lowest insulation thickness achieved resulting in increasing and saving space.
- High R-value ($4.8 \text{ m}^2\text{K/W}$ per 20mm)
- Lightweight & thinnest insulation available
- Environmentally safe, contains no respirable fibres
- Very high service life maximum upto 60 years.



Technical Properties

Quality		HVI-FSKW	HVI-PSV	HVI-STFG	HVI-STFS	HVI-VQFS
Core		Fumed Silica	Microporous	Composite	Fumed Silica	Microporous
Application Temperature	°C	- 100 to 60	- 50 to 80	-70 to 80	-70 to 80	-75 to 100
Density	Kg/m ³	160-260	160-260	240-300	160-200	160-230
Thermal Conductivity at 10°C	W/mK	0.0045	0.0045	0.0019	0.0044	0.0035
R-Value for 25.4 mm	m ² .K/W	6	6	13	6	7
R-Value for 1 inch	hr-ft ² -°F/Btu	32	32	76	33	41
Compressive strength	MPa	0.19	0.15	0.20	0.15	0.12
Length	mm	100-1500	275-1100	80-1800	1000	100-1500
Width	mm	100-1000	350-700	80-800	600	100-1000
Thickness	mm	6-50	6 - 30	4-40	10-35	5-50
Insulation Performance		High	High	Very High	High	High
Surface Colour		Silver	Silver	Silver	Silver	Silver
Service Life	Years	45	45	45	45	45





Wedge India

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