



KSL845

孔明®气凝胶绝热毡



孔明®KSL845是一种新型纳米气凝胶隔热材料，由二氧化硅气凝胶与无机纤维经特殊工艺复合而成，旨在以最薄的保温层、最小的重量为用户提供最有效的隔热功能。

KSL845有3mm、5mm、10mm三种厚度，更易于裁切与施工。可以完美应对多种复杂的工况。

KSL845是绝佳的新型节能保温材料，在工业、船舶、建筑、市政热力等领域的中高温管道和设备等领域拥有广阔的应用前景。

热导率

测试标准按照GB/T10295-2008

温度/°C	导热系数 (W/m.k)
25	0.018
100	0.024
200	0.025
300	0.035
400	0.047

导热系数 (W/m.k)



物理性质

产品	KSL845-10	KSL845-5	KSL845-3
厚度	10mm	5mm	3mm
幅宽	≥1497		
最高使用温度	450°C		
颜色	White/白色		
密度	150-270kg/m ³		
疏水率	≥98%		

规范符合性和性能

检查标准	项目	标准
GB/T343636-2017	振动质量损失率	≤1%
GB8624-2012	燃烧性能等级	A级
GB/T5480	质量吸湿率	≤5.0%
GB/T17911-2006第9章	抗拉强度	横向、纵向均≥200kpa
GB/T13480	压缩强度	25%变形≥80kpa
GB/T34336-2017附C	压缩回弹率	≥90%
GB/T34336-2017附E	柔性	弯折90° 不开裂分层
GB/T17393	腐蚀性	覆盖奥氏体不锈钢时, 符合规定
GB/T11835-2016中F		覆盖铝铜钢时, 符合规定

本文件中参数仅做参考, 最终解释权归爱彼爱新材料有限公司所有, 最终数据以双方合同约定为准。

优势特性



导热系数低, 可大幅提高空间利用率。



环境安全—不含苯、甲醛、石棉等有毒有害物质。



易于裁剪安装。



有效寿命长可重复使用。





KSL845

Kistler® Aerogel Blanket



Kistler®KSL845 is a flexible aerogel blanket insulation engineered to deliver maximum thermal protection with minimal weight and thickness. KSL845 is composed of silica aerogel and inorganic fiber by special process.

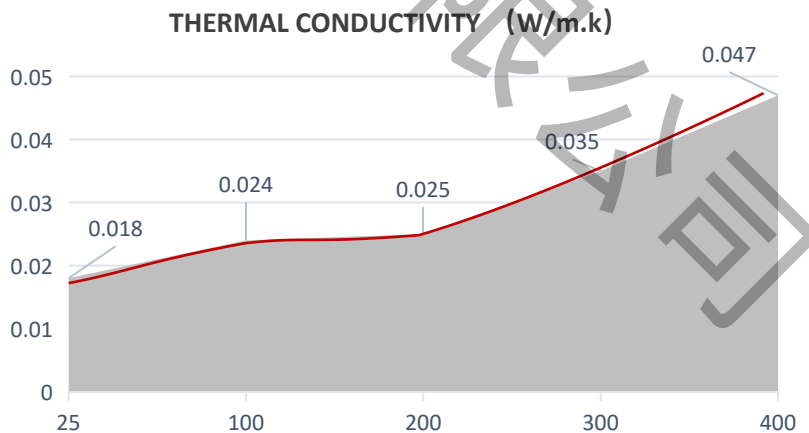
KSL845 is available in 10 mm ,3mm and 5 mm thicknesses. It is easy to cut, install, and fabricate.

Ideal for commercial use, KSL845 excels in thermal management solutions for shipbuilding, construction, municipal heating and other fields of medium and high temperature pipelines and equipment.

THERMAL CONDUCTIVITY

Tested in accordance with GB/T10295-2008

Mean Temp. /°C	K (W/m.k)
25	0.018
100	0.024
200	0.025
300	0.035
400	0.047



PHYSICAL PROPERTIES

PRODUCT	KSL845-10	KSL845-5	KSL845-3
THICKNESS*	10mm	5mm	3mm
WIDTH	≥1497		
MAX. USE TEMP.	450°C		
COLOR	White		
DENSITY*	150-270kg/m ³		
HYDROPHOBIC	≥98%		

SPECIFICATION COMPLIANCE AND PERFORMANCE

TEST PROCEDURE	PROPERTY	RESULTS
GB/T343636-2017	mass loss rate	≤1%
GB8624-2012	combustion performance	A
GB/T5480	weighting percentage of moisture absorption	≤5.0%
GB/T17911-2006	Tensile Strength	≥200kpa
GB/T13480	Compressive Resistance	≥80kpa
GB/T34336-2017	Compression resilience ratio	≥90%
GB/T34336-2017	Flexibility of Blanket Insulation	Flexible
GB/T17393	Corrosiveness to Steel	Cover the AUSTENITIC stainless steel, Pass
GB/T11835-2016中F		Aluminium clad copper steel, Pass

The above parameters are for reference only. The final data shall be subject to the sales contract. The right of interpretation belongs to IBIH Advanced Materials Co., Ltd.

ADVANTAGES



Extremely low thermal conductivity enables thinner designs for improved space efficiency.



Environmentally safe No asbestos, benzene, formaldehyde and other harmful substances.



It is easy to cut, install, and fabricate.



Durable format permits reuse.

