

应用领域 Application Fields :

管道保温  
Pipeline insulation



罐体保温  
Tank insulation

家电保温/保冷  
Household appliance insulation  
Cold insulation



建筑保温  
Building insulation

交通运输  
Transportation



化工设备  
Chemical Equipment

军事航天  
Military aerospace



主营产品 MAIN PRODUCTS:

- SiO<sub>2</sub> 气凝胶玻璃纤维保温毡--SACB-0-X  
Silica Aerogel Fiberglass Blanket--SACB-0-X
- SiO<sub>2</sub> 气凝胶陶瓷纤维保温毡--SACT-X  
Silica Aerogel Ceramic Fiber Blanket--SACT-X
- SiO<sub>2</sub> 气凝胶隔热纸(板)  
Silica Aerogel Paper( Carton )
- SiO<sub>2</sub> 气凝胶玻璃  
Silica Aerogel Glass
- SiO<sub>2</sub> 气凝胶粉体(颗粒)  
Silica Aerogel Powder (Particles)



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NEW MATERIAL  
改变世界的材料  
CHANGING THE WORLD

SiO<sub>2</sub>  
SILICA AEROGEL  
COMPOSITE  
气凝胶复合材料

外形尺寸 Size	长宽≤1m,厚度5mm~30mm Length≤1m,Thickness 5mm~30mm
孔隙率 Porosity	80~99.8%
可见光透过率 Visible Light Transmittance	≥60%
热导率 Thermal Conductivity	≤0.02w/mk
密度 Density	≤300Kg/m <sup>3</sup>
降噪系数NRC Noise Reduction Coefficient	0.45

注释: SiO<sub>2</sub>气凝胶玻璃技术参数  
Remarks: Silica aerogel glass technical parameters

SiO<sub>2</sub> 气凝胶粉体(颗粒)  
Silica Aerogel Powder (Particles)



项目 Items	气凝胶粉体 Silica Aerogel Powder	气凝胶颗粒 Silica Aerogel Particles
体积密度 Density	40~120Kg/m <sup>3</sup>	60~120Kg/m <sup>3</sup>
粒度 Particle Size	0.5~1mm	1~5mm
比表面积 Specific Surface Area	800~960m <sup>2</sup> /g	600~800m <sup>2</sup> /g
孔隙率 Porosity	>90%	>90%
孔径 Aperture	20~60nm	40~60nm
表面性能 Surface Property	疏水/亲水 Hydrophobic / Hyreophilic	疏水/亲水 Hydrophobic / Hyreophilic

注释: SiO<sub>2</sub>气凝胶粉体(颗粒)技术参数  
Remarks: Silica aerogel Powder(Particles) technical parameters



# SILICA AEROGEL COMPOSITE

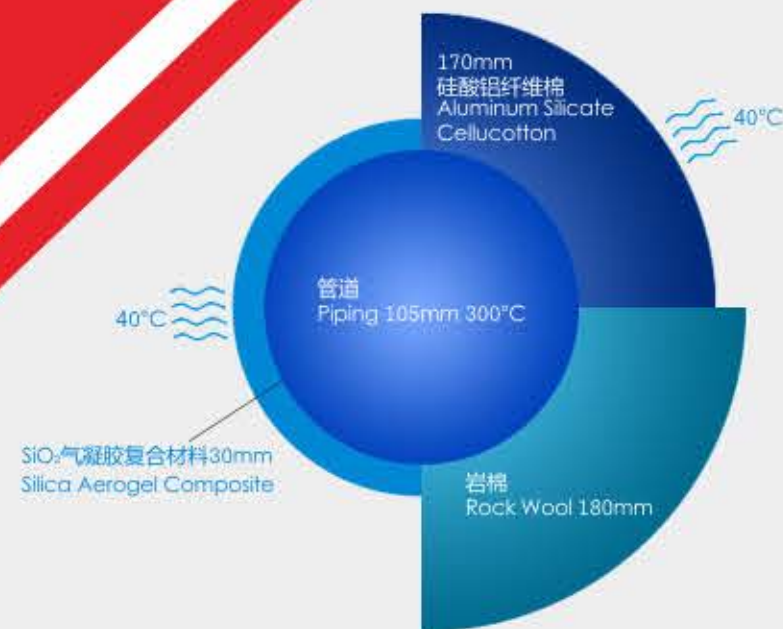
## SiO<sub>2</sub>气凝胶复合材料



### 产品描述 Descriptions:

SiO<sub>2</sub> 气凝胶复合材料是由非晶体型硅胶和基材复合并在超临界二氧化碳流体中干燥而得到的。它有效地降低了气凝胶本身的高脆性，增强了与基材之间的键结构，可广泛应用于建筑、石化、管道、精密仪器等保温领域。

The SiO<sub>2</sub> aerogel composite is made of noncrystal silica gel and substrate, it was dried in supercritical fluid CO<sub>2</sub>. It can effectively reduce the high brittleness of aerogel and enhance the structure between aerogel and substrate. It is widely used in a variety of fields, such as construction, petrochemistry, pipelines, precision instrument etc.



1、使用寿命最长, 20年以上无需更换  
Longest service life,  
no replacement for more than 20 years

2、导热系数最低  
Lowest thermal  
conductivity coefficient

3、薄而轻  
Thinnest and lightest  
thermal insulating material

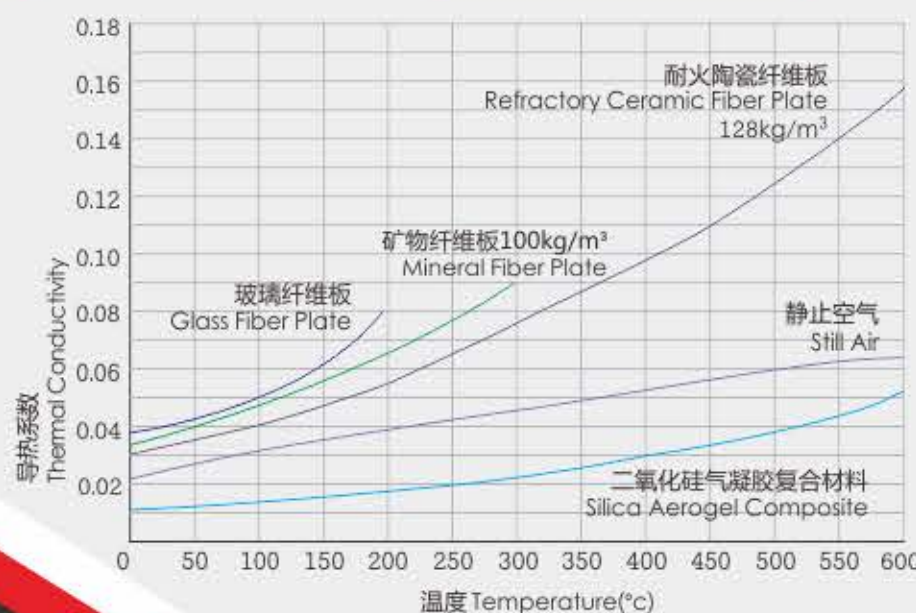
4、防水防潮, 易于仓储  
Water-proof and moisture-proof,  
easy to storage

### 优势 Advantages

5、防火性能最高, 安全级别为A1级  
Superior fire proof performance  
with safety class of Gr.A1

6、抗压性强, 能承受野蛮施工  
Resistant to high pressure

7、绿色环保, 无毒无腐蚀  
Environmentally friendly,  
Non-toxic and non-corrosive



### SiO<sub>2</sub> 气凝胶玻璃纤维保温毡--SACB-0-X Silica Aerogel Fiberglass Blanket--SACB-0-X

SiO<sub>2</sub>气凝胶玻璃纤维保温毡是我公司的主打产品之一。它是选用针刺玻璃纤维毡为基材, 将气凝胶复合到基材里制备而成的。具有优异的隔热性能和表面疏水性以及阻燃性能。其常温导热系数在0.016W/(m·k)左右, 比静止空气的还低; 该产品的疏水性极高, 常温下的憎水率可达99%以上; 阻燃性能优异, 防火等级达到国家A1级标准。且该产品的使用温度范围广, 可根据不同要求在-200~650°C范围内使用, 安装简单快捷, 便于施工。可广泛应用于650°C以下需绝热的管道和罐体、炉体、建筑等。

Silica aerogel fiberglass blanket is one featured product of our company. It's produced by compounding Silica aerogel and fiberglass blanket together. It has excellent thermal insulation property, surface hydrophobicity and flame retardant property. Its thermal conductivity coefficient is about 0.016W/m.k at room temperature, which is lower than still air. And its hydrophobic rate can reach 99% under the room temperature. Also its flame retardant performance is excellent, the fire rating can reach national A1 standard level. And its working temperature range is wide, which is between -200~650°C according to different requirements. The installation is simple, quick and convenient for construction, which is widely used on pipes, tanks, and buildings furnace etc. under 650°C.



### SiO<sub>2</sub> 气凝胶陶瓷纤维保温毡--SACT-X Silica Aerogel Ceramic Fiber Blanket--SACT-X

SiO<sub>2</sub>气凝胶陶瓷纤维复合材料, 是以陶瓷纤维为基材, 将气凝胶与其复合制备而成的。该产品在常温下的导热系数不大于0.020W/(m·k)。该产品能够在较高温下使用, 可满足高温条件下的保温要求, 广泛应用于600°C以上需绝热的管道和罐体、炉体等。

Silica aerogel ceramic fiber blanket is produced by compounding Silica aerogel and ceramic fiber blanket. It's thermal conductivity coefficient is less than 0.02W/m.k at room temperature. This product can be used under high temperature which can meet the different heat insulation requirements. So it's widely used on pipes, tanks and furnace etc. above 600°C.



### 主要技术参数 Technical Parameters :

产品型号 Model	SACB-0-3	SACB-0-6	SACB-0-10
厚度 Thickness(mm)	3	6	10
宽幅 Width(mm)	1400/1500(customizable)		
颜色 Color	白色 White		
使用温度 Permitted useful temperature range(°C)	-200~650	-200~650	Fiberglass composite: -200~650 Ceramic fiber composite: 600~1000
密度 Density(kg/m <sup>3</sup> )	200±20	200±20	200±20
线膨胀率 Linear expansivity	4.2×10 <sup>-6</sup>		
尺寸稳定性 Dimensional stability(max)	1%	测试方法 Test method GB/T 8811-2008	
压缩性能 Compressive property	(min),kpa,@10%	60	测试方法 Test method GB/T 13480-2014
	(min),kpa,@25%	120	
燃烧等级 Burning behavior	A级(A1)		
烟雾等级 The smoke performance level	SR-2		
滴落物等级 Drip content level	ST-2		
烟雾毒性 FED值 Smoke toxicity of the FED's value,(max)	0.1		
耐腐蚀性 Corrosion resistance	通过 pass		
憎水率 Hydrophobicity,(%)	>99.8		
拉伸强度 Tensile strength(min),(kpa)	Fiberglass composite: 100	Ceramic fiber composite: 80	测试方法 Test method GB/T 17911-2011

注释: SiO<sub>2</sub>气凝胶玻璃纤维保温毡和气凝胶陶瓷纤维保温毡技术参数  
Remarks: Silica aerogel fiberglass and ceramic fiber technical parameters

### SiO<sub>2</sub> 气凝胶隔热纸(板) Silica Aerogel Paper (Carton)

外形尺寸 Size	长宽≤1m,厚度5mm~30mm Length≤1m,Thickness 5mm~30mm
热导率 Thermal	≤0.02w/mk
密度 Density	≤300Kg/m <sup>3</sup>

注释: SiO<sub>2</sub>气凝胶隔热纸(板)技术参数  
Remarks: Silica Aerogel paper (carton) technical parameters



### SiO<sub>2</sub> 气凝胶玻璃 Silica Aerogel Glass

