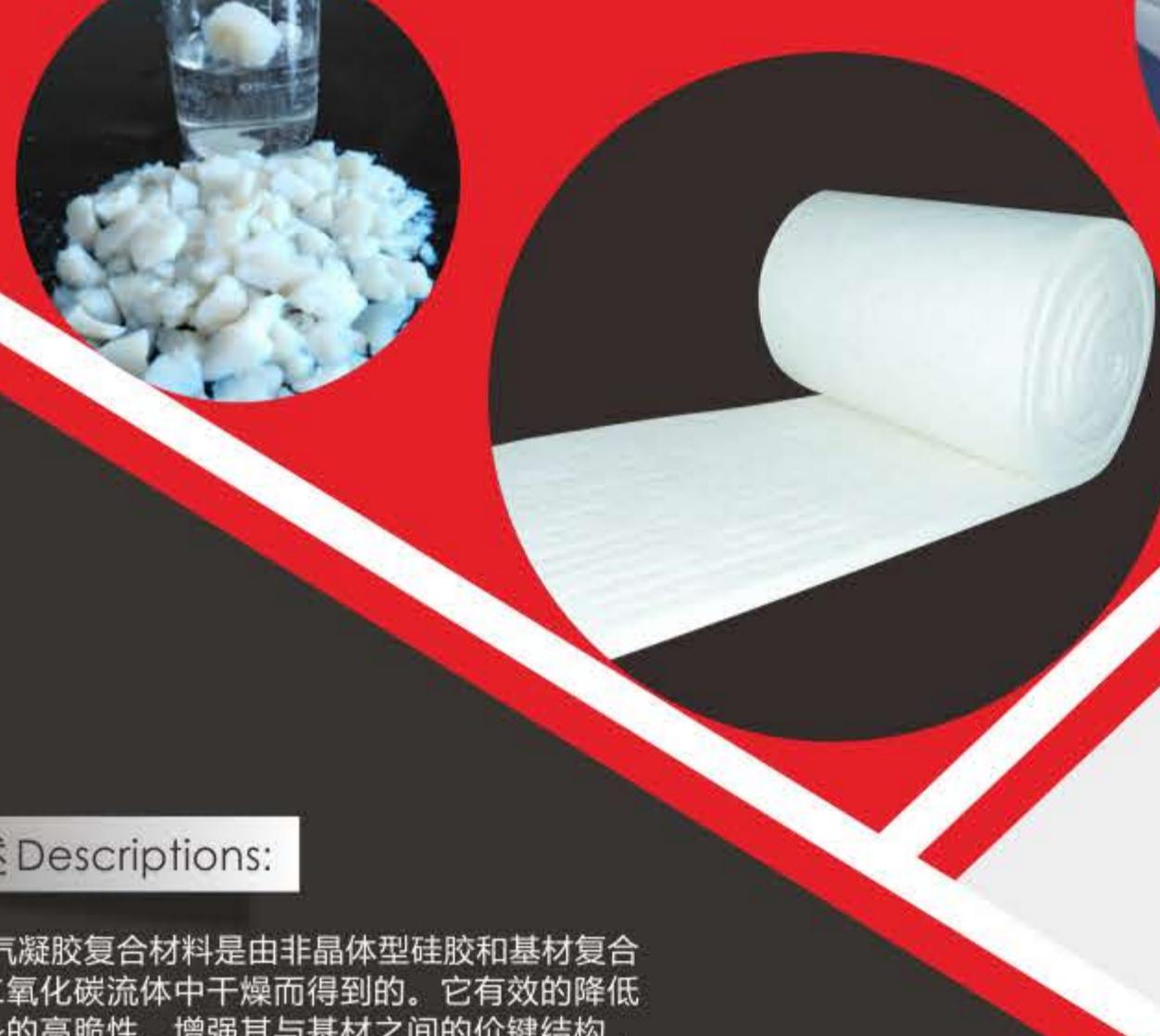


# PROFILE OF SILICA AEROGEL COMPOSITE

## 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。它有效的降低了气凝胶本身的高脆性，增强其与基材之间的价键结构，可广泛应用于建筑、石化等保温领域。

The SiO<sub>2</sub> aerogel composite developed and produced by GAWEE is made by drying the noncrystal silica gel and its substrate blanket with the supercritical CO<sub>2</sub> fluid. The process can reduce the intrinsic high brittleness of the aerogel effectively, and strengthen the structure of valence bond between the aerogel and its substrate. The aerogel can be widely used in construction and petrochemical fields.

1、导热系数低 Lower thermal conductivity coefficient

2、薄而轻 Thinnest and lightest thermal insulating material

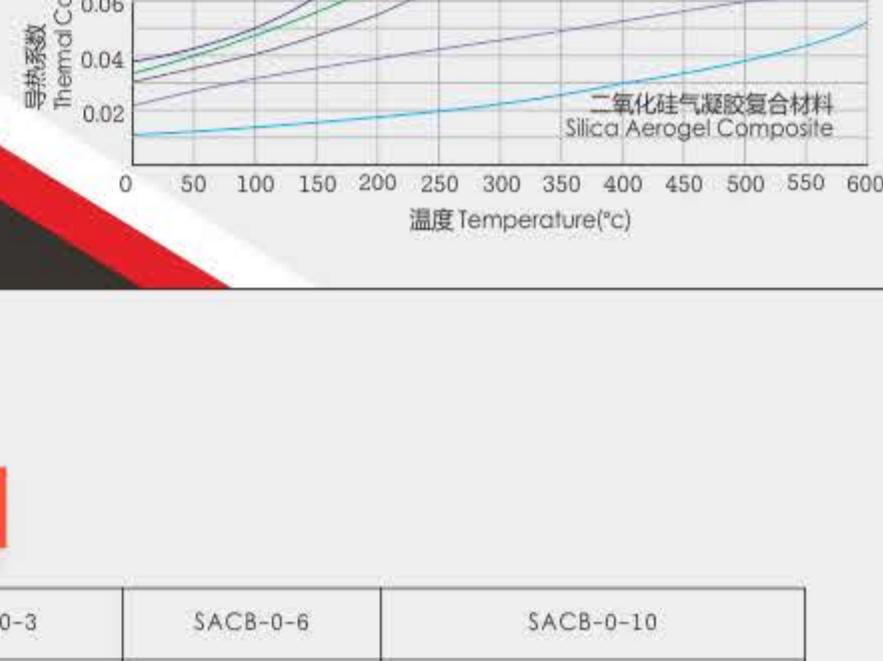
3、防水防潮，易于仓储 Water-proof and moisture-proof, easy to storage

4、防火性能优越，安全级别为A1级 Superior fire proof performance with safety class of Gr.A1

5、抗压性强，能承受重压施工 Resistant to high pressure

优势 Advantage

6、使用安全，易于安装，绿色环保 The use of safe, easy to install, green environmental protection

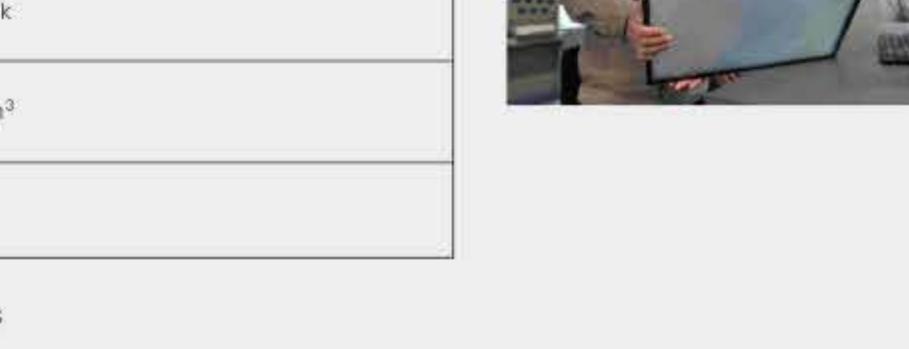


### 主要技术参数 Technical Parameter:

产品型号 Model	SACB-0-3	SACB-0-6	SACB-0-10
厚度 Thickness(mm)	3	6	10
宽度 Width(mm)	1400/1500(customizable)		
颜色 Color	白色 White		
使用温度 Permitted useful temperature range(°C)	-200~650	-200~650	-200~650
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 18811-2008
压缩性能 Compressive property	(min),kpa,@10% (min),kpa,@25%	60 120	测试方法 Test method GB/T 13480-2014
燃烧等级 Burning behavior	S4级		
烟雾等级 The smoke performance level	SR-2		
滴落物等级 Drip content level	SR-2		测试方法 Test method GB/T 20285-2006
烟雾毒性FED值 Smoke toxicity of the FED's value,max	0.1		
耐腐蚀性 Corrosion resistance	通过		测试方法 Test method GB/T 13810.4-2006
憎水 Hydrophobicity, %	>99		测试方法 Test method GB/T 10299-2011
拉伸强度 Tensile strength(min),kpa	100		测试方法 Test method GB/T 17911-2011

注释：SiO<sub>2</sub>气凝胶玻璃纤维和陶瓷纤维技术参数  
Annotations:Silica Aerogel Glass fiber and ceramic fiber technical parameters

### 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 Powders (Particles)



项目 Items	气凝胶粉体 Silica Aerogel Powders	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	2~5mm
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 / Hyrophilic	疏水/亲水 Hydrophobic / Hyrophilic

注释：SiO<sub>2</sub>气凝胶粉体(颗粒)技术参数  
Annotations:Silica Aerogel Powders(Particles) technical parameters



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



郑州久达科技有限公司  
Zhengzhou Joda Technology Co.,Ltd.



### 应用领域 Application fields:

1. 管道保温：石油管道、化工管道、城市供暖系统、蒸汽管道。  
2. 罐体保温：大型LNG储罐，裂解釜、加氢釜、制氢釜、超临界萃取釜、蒸压釜、大型机械窑炉、工业建筑墙体、高温作业车间、保温操作平台；

3. 家电保温：冰箱、中央空调、电热炉、加热器、烤炉、烤箱、电取暖器；

4. 军事航天：反应堆、太空舱、救生舱、航天飞机、潜艇回路管道；

5. 建筑保温：高档建筑的保温材料，目前保温性能最优秀的保温材料；

1. Pipeline insulation: oil pipelines, chemical pipelines, urban heating systems, steam pipes.

2. Tank insulation: large LNG storage tank, cracking kettle, hydrogenation kettle, hydrogen kettle, supercritical extraction kettle, autoclave, large mechanical furnace, industrial building wall, high temperature operation workshop, insulation operation platform;

3. Appliance insulation: refrigerator, central air conditioning, electric furnace, heater, oven, oven, electric heater;

4. Military aerospace: reactor, capsule, rescue capsule, space shuttle, submarine circuit;

5. Building insulation: high-grade building insulation materials, the current insulation performance of the best insulation materials;

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郑州久达科技有限公司  
ZHENGZHOU JODA TECHNOLOGY CO.,LTD.

+86 18236958493

judy@zzjoda.com

河南省巩义市芝田开发区

Zhitian Development Zone, Gongyi City, Henan Province, P. R. China

郑州市郑东新区商鼎路与心怡路交叉口升龙广场

Shenglong Tower, Zhengdong New District, Zhengzhou City, Henan Province, P. R. China

www.joda-tech.com / www.zzjoda.com

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