CHIYODA INTEGRE CO.,LTD.

e(eco)隔热材料
e(eco)Insulation Material

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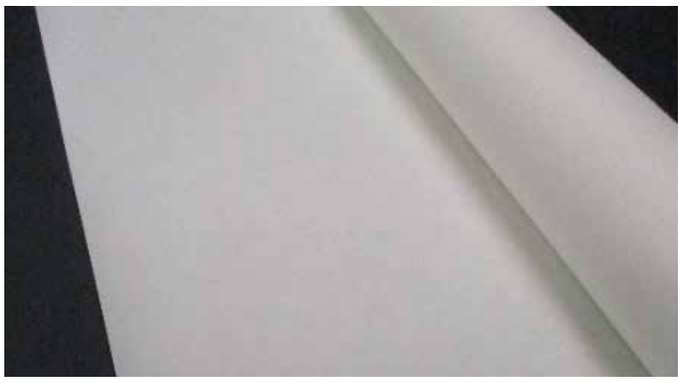
开发中 Development

隔热片“BOY-P系列”
Insulation Sheet "BOY-P Series"



资料提供：OzoneSave株式会社　Document provided by: Ozonesave Co., Ltd.

特点　Features

①使用含空气层的空心珠的隔热材料
①Insulation material that uses hollow beads having air layer

②薄型、轻量隔热材料
②Thin and lightweight insulation material

③重叠使用可提高隔热性能
③Improved heat insulation performance when used by piling up multiple layers

④正在开发阻燃型及高耐热不可燃型产品
④Flame-retardant type and high heat-resistant non-flammable type are under development

薄型 轻量 柔软 多层化

适用建材　保冷保温　医用等所有用途

Thin film type　Light weight　Flexible　Multiple layers

For building material, cold insulation, medical use, etc.

产品规格　Product Specifications

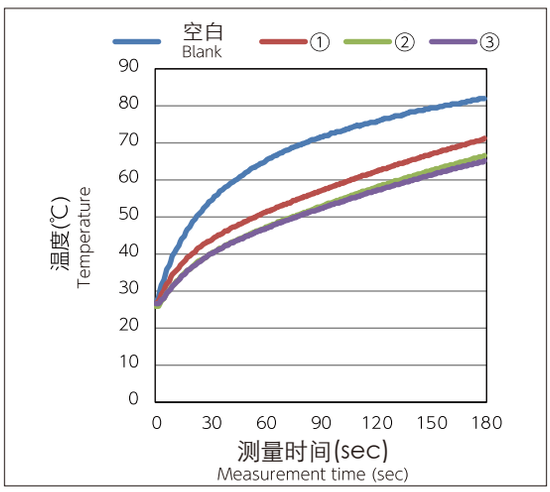
No.	产品名称 Product Name	厚度㎜参考 Approximate thickness mm	重量g/㎡ Weight g/㎡	宽㎜ Width ㎜	长度 Length	导热率W/mk Thermal conductivity W/mk
1	“BOY-P” 普通型 "BOY-P" General type	0.14	56	1,000	卷状 Roll shape	0.067
2	“BOY-P” 阻燃型 "BOY-P" Flame retardant type	0.19	88	1,000	卷状 Roll shape	0.032
3	“BOY-P” 高耐热型 "BOY-P" High heat resistance type	开发中(耐热600℃以上，不可燃认定材料) Under development (Heat resistant 600 ℃ or higher, non-combustible certified material)				

※导热率为本公司测量值，并非保证值。　※These are our measured values and not guaranteed values.

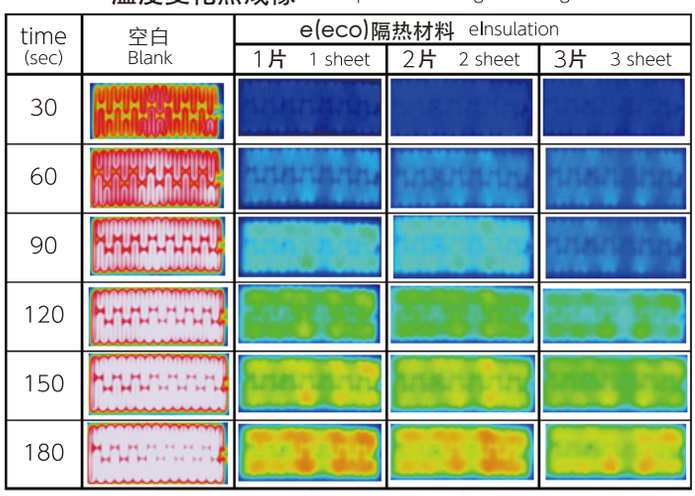
隔热性能　Insulation performance

※将e隔热材料料放在作为热源的加热器上测量温度变化(①空白 ②1片e隔热材料 ③重叠2片④重叠3片)
※eInsulation is placed on the heat source and change in temperature is measured.
((1) Blank (2) eInsulation 1 sheet (3) 2 sheets stacked (4) 3 sheets stacked)

温度变化图表 Temperature change graph



温度变化热成像 Temperature change thermogram



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CHIYODA INTEGRE CO.,LTD.

气凝胶隔热材料
Aerogel Heat Insulator

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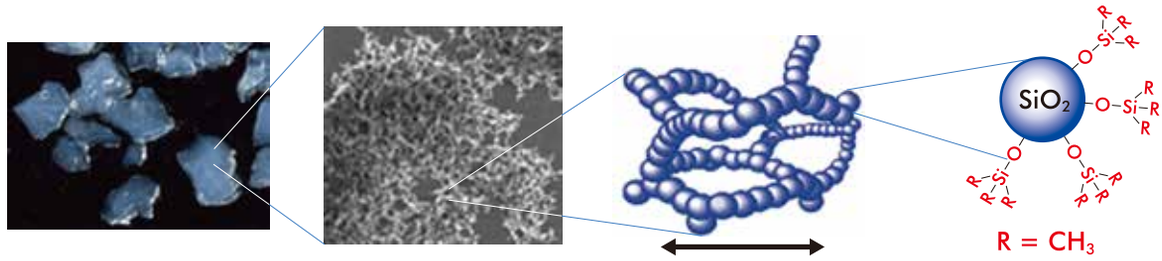
“卡博特非晶硅气凝胶颗粒”
Aerogel particles made from amorphous silica, developed by Cabot



Micron to millimeter 'particles'

Nanoporous microstructure
>90% air, 740m²/g surface

20nm open pores

Superhydrophobic

气凝胶 隔热材料

超轻量　超微细孔　空气率90%

Aerogel Heat Insulator

Ultra-lightweight　Ultrafine pores
Air occupies 90% of total particle-volume

特点　Features

①轻量、隔热、超低导热率0.012W/mk

②高拒水性、蒸汽通气性

③高透光性与分散性

④惰性、长期稳定性、不可燃性

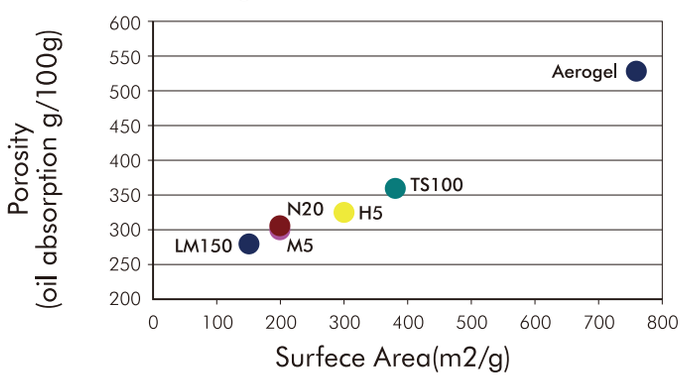
1.Lightweight, ultralow heat-conductivity (0.012W/mk)

2.High water-repellent, vapor permeable

3.High light transmission, dispersible

4.Inert, nonflammable, long term stability commodo consequat.

气凝胶 vs 传统二氧化硅
Aerogel vs conventional silica



卡博特气凝胶与传统二氧化硅相比拥有2-5倍的比表面积与1.5-3倍的孔隙率

Cabot aerogel has 2.5 times more specific surface area and is1.5 to 3.0 times more porous than conventional silica.

资料提供：卡博特日本株式会社　Materials provided by Cabot Japan Co., Ltd.

提供方案流程

①听取客户要求

②根据要求进行试制

③对试制品进行试验、评估

④提供给客户进行试制品评估

⑤以实用化为目标提供方案

Ordering Procedure

1. First, tell us your requirements.
2. Then, we will design the product according to your specifications.
3. Next, we will create a prototype.
4. We will then evaluate the prototype to confirm that it satisfies your requirements.
5. Finally, we will propose the product to you for your order to us.