

*JACKET FOAM*

*Low-cost plumbing thermal insulator*

# *Jacket Foam*



High Insulation

Insulation characteristics of approximately 1.5 times  
※1

Energy Saving

Heater power consumption approximately 30-40%  
save ※1

High Heat Resistance

Maximum temperature approximately 200°C

Safety

Composed of noninflammability, incombustible  
material

Easy Processing

Scissors easily

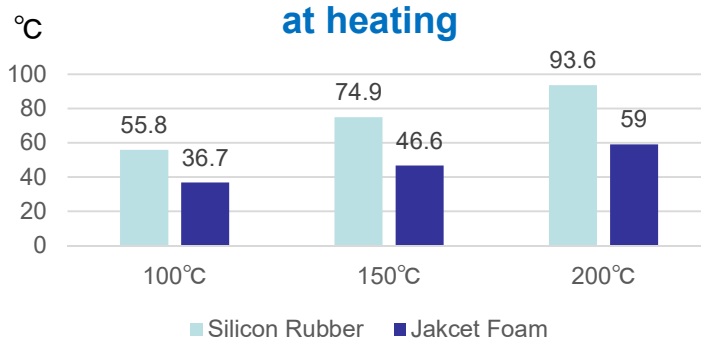
## *Luck Design*

## 1. Insulation performance comparison

Insulation characteristics of approximately 1.5 times (Comparison with the silicon rubber)

※Please refer to a following insulation-related / energy saving characteristics examination column for the evaluation condition.

### Thermal insulation jacket surface temperature at heating

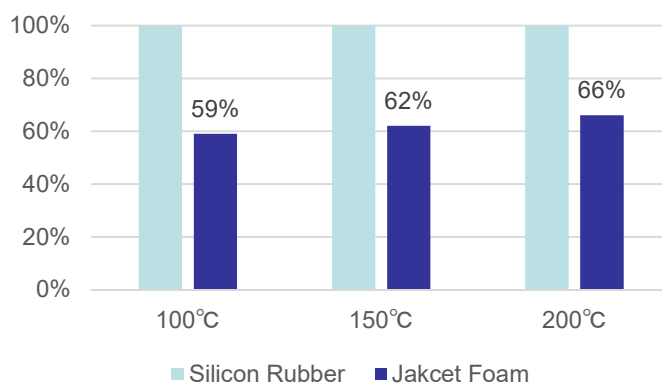


## 2. Energy saving performance comparison

Jacket Foam cut the power consumption of the plumbing heater 30-40% (Comparison of silicon rubber)

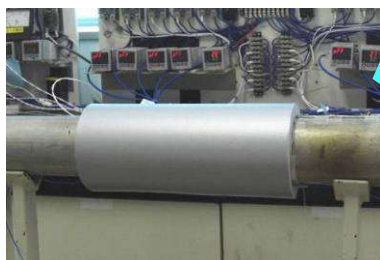
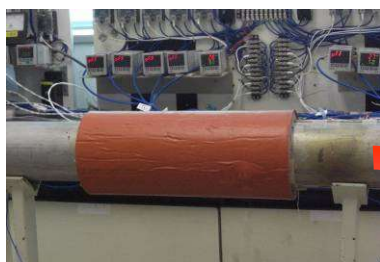
※Please refer to a following insulation-related / energy saving characteristics examination column for the evaluation condition.

### Energy saving performance comparison Comparison of silicon rubber is 100%



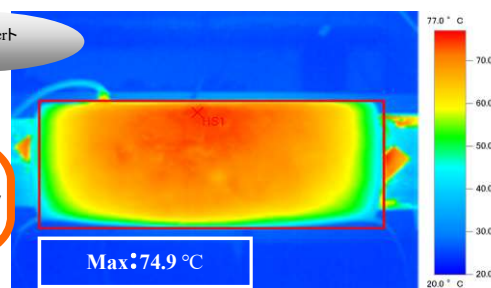
## Insulation / energy saving examination

To compare the thermal insulation jacket of two kinds of the jacket form with the silicon rubber ; an each mask-formed heater ※The SUS pipe which I wrapped with 2 ※Possess 3 and temperature-control by PID to 150 °C ※We measured surface temperature when we did 4 by thermography

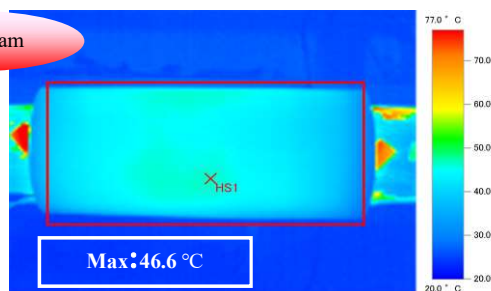


Surface temperature difference approximately 30°C

Silicon rubber



Jacket Foam



- ※2 Heater spec : W280×L300 Rating power consumption 150W
- ※3 pipe size φ90×L700×3t
- ※4 It is start of measurement from control temperature arrival after progress for one hour

### 3. Heat-resistant

Heat breakdown test data of the insulation material (ISO2578)

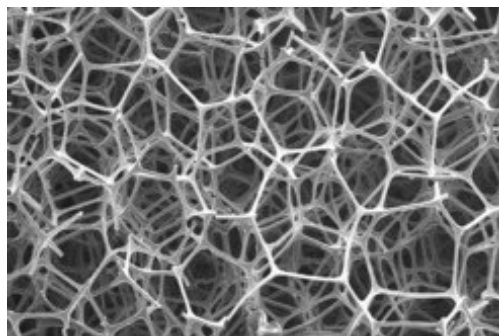
5000 hr / 約200°C

20000 hr / 約180°C※5

※5 In set heat durability time, it is an index of the atmosphere temperature that the volume of the foaming body decreases to half. It is reference data and varies according to real use environment, condition.

### 4. Safty

Composed only of material of noninflammability, the incombustibility.



SEM photo

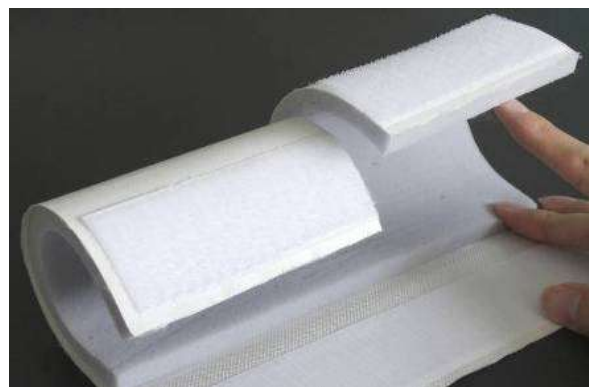
#### Incombustible grade of the insulation material V-0

(There are the use results in cars in the vehicle industry)

### 5. Easy Processing

Cutting, the perforator processing using scissors is easy.

Because density is approximately a one-40th and light weight, in comparison with the silicon rubber sponge, workability improve



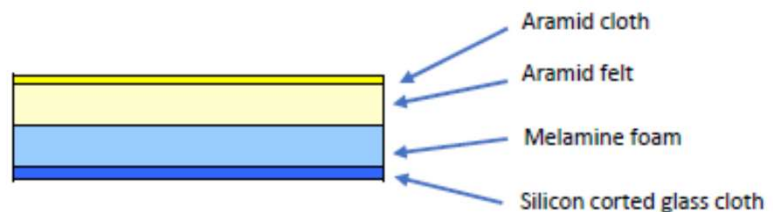
### ■ Jacket foam lineup

Shape	Diameter	Length
Straight paibe	32 , 40 , 50 , 80 , 100 A	1,250mm
Long elbow	32 , 40 , 50 , 80 , 100 A	—
Short elbow	32 , 40 , 50 , 80 , 100 A	—
Blank materials	—	□600mm × 10mm

※ Please refer for the special shape correspondence

# Jacket Foam H

- Heat-resistant 250°C High temperature resistance
- Aramid fiber cloth and felt of heat resistance 420 are used by a wall
- Cost-effective is Good, High temperature insulator.
- Easy processing ;  
Cutting, the perforator processing using scissors is easy.



## Jacket Foam H



***Luck Design Comapany, Limited***

759-1, Setakamachi Kaminosho, Miyama-shi, Fukuoka prefecture 835-0025 Japan  
TEL; +81-944-85-9536 FAX; +81-944-85-9537



## Plumbing thermal insulation heater product

### Low-cost plumbing thermal insulation system

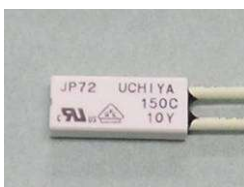
We realize the plumbing thermal insulation of a great variety of layouts at low cost by combining a fabric heater, a temperature control apparatus with a heat insulator jacket form.



Jacket Foam



Fabric Heater



Thermostat sistem



Small PID temperature controller



After construction

### High-performance plumbing thermal insulation system

For the process that high-precision plumbing thermal insulation needs, We propose in a full line of products nap.



Heating Jacket

HOT N<sub>2</sub> System

PID controller

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