

Non-Asbestos Fabric

TAFLITE #4021

Heat-resistance insulation cloth/ribbon

FUJISHOKU Sealing Industry, LTD.

No. 20 Gushan development zone, Yuyao
Ningbo, Zhejiang, China
TEL: 86-574-6257-1711
FAX: 86-574-6257-1718

TAFLITE #4021G/S/i Ceramic Fiber Cloth/Ribbon

TAFLITE #4021G/S/i Ceramic fiber cloth/ribbon/round rope, square rope are used as the heat insulation protective material, cover, curtain and seal soft gasket in high temperature. Rubber coated cloth and processed cloth can be also booked.



Basic Features

TAFLITE	Referenced material	Max temperature
#4021-G	E glass fiber	550°C
#4021-S	SUS-316	1,000°C
#4021-i	inconel#600	1,100°C
Melting Point	1,760°C	
Thermal Reduction Rate	15% ~ 25%	
Thermal Conductivity	0.12~0.2Kcal/m.h.°C	

Applications

- ☞ The protective cover used when welding.
- ☞ The curtain before different furnace.
- ☞ The protective cover of the exhaust pipe, duct.
- ☞ The seal, heat resistance insulation materials of furnace.
- ☞ Heat resistance sealing soft gasket.

Dimension

TAFLITE #4021	cloth		ribbon	
	Fiberglass			
item/referenced material				
thickness (mm)	2.0	3.0	2.0	3.0
width (mm)	1,000		25~100	25~100
length/roll (M)	30		30	
weight (Kg/roll)	34	42	1.6	2.3
Knitting tightness (thread count/50 mm)	warp	≥28	≥21	30
	weft	≥14	≥10	16
Tensile strength (Kg/50 mm)	warp	35	46	35
	weft	15	20	15
wave	plain		plain	

※The specification will be changed if the products are improved.

Size

#4021 G/S/i	cloth	ribbon	Square /Round rope	
thickness (mm)	2.0	3.0	13×13	30×30
width (mm)	1,000	25 32 38 50 65 75 100	16×16	60×60
			20×20	40×40
			25×25	50×50
length (1roll)	30 meters	30 meters	30 meters	10 meters

<#2021-G/S/i> rubber coated products can be processed, the specific size can be discussed when booking.

Tensile strength

thickness	temperature	400°C	500°C	800°C	1000°C	1100°C
#4021S cloth 2.0 mm	warp	2 4 6				5 4 . 4
	weft	1 7 8				3 5 . 7
#4021S cloth 3.0 mm	warp	3 3 0				8 5 . 8
	weft	2 3 5				4 6 . 6

※The data is only for reference.

Heat-resistant insulation products: Carbonized cloth/ ribbon, Ceramic fiber cloth/ ribbon, Expanded graphite cloth/ribbon, Silicacloth/ribbon, Expanded graphite sheet with SuS316 foil and various kinds of gasket materials.

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For High-temperature heat-insulation.

Ingredient form

NO.	ITEM	TAFLITE #4021G	TAFLITE #4021S
1	Referenced materials	E glass filament fiber	#SUS 310 stainless wire
2	Color	White	
3	Weave	Plain weave	
4	Diameter of fiber (μ)	2~6	
5	Knitting tightness (kg/M ³)	300~700	
6	Moisture content (%)	≤ 2	
7	Inorganic content $\geq 85\%$	Al ₂ O ₃ +SiO ₂ (%)	≥ 97
8		Al ₂ O ₃ (%)	≥ 45
9		Fe ₂ O ₃ (%)	≤ 1.0
10	Organic content $\leq 15\%$	Artificial fiber (%)	≤ 8
11		Pulp (%)	≤ 12
12		Others (%)	≤ 1
13	Thermal conductivity (W/M·K)	0.12~0.13 (300°C) 0.13~0.16 (600°C) 0.17~0.20 (1,000°C)	
14	Heat shrinkage (%)	≤ 3.5 (1,000°C × 3 hours)	
15	Thermal reduction rate (%)	≤ 15	
16	Tensile strength (N/100 mm)	$\geq 30N$ (830Tex)	$\geq 32N$ (830Tex)
17	Acid resistance (%)	50 (72hours after soaking in 10% NaOH)	
18	Alkali resistance (%)	50 (72hours after soaking in 10% H ₂ SO ₄)	
19	Maximum temperature	550°C	1,000°C
20	Continuous use temp	$\leq 450^\circ\text{C}$	$\leq 800^\circ\text{C}$

The data is only for reference.

Heat-resistant insulation products: Carbonized cloth/ribbon, Bio-Soluble fiber cloth/ Bio-Soluble fiber ribbon, Expanded graphite cloth /ribbon, Silica cloth/ribbon, high temperature resistance dealed cloth/ribbon, Expanded graphite sheet.