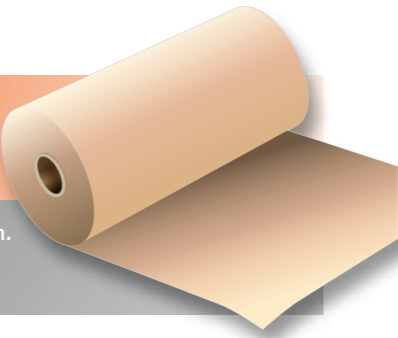


# CHUKOH FLO™ Fabrics / Silicone Fabrics

These are composite materials of fluororesin or silicone resin on industrial cloth such as glass cloth or aramid cloth. We further fabricate these composite materials to offer our products in a wide variety of fields including chemical, machinery, electric, telecommunication and construction fields.



### Main applications

release sheets / insulating materials / conveyor belts / sliding materials / heat seal release materials / etc.

### Maximum service temperature

- Glass cloth based fabric: +260°C
- Aramid cloth based fabric: +200°C

### G type fabric

This is a high-performance composite material obtained by impregnating and sintering fluororesin dispersion onto a glass cloth. This product has both mechanical strength of glass cloth and excellent characteristics of fluororesin. We also offer colored items.

- It has excellent non-stick property, highest slippage, heat resistance and chemical resistance.
- It has excellent electric property with outstanding dielectric characteristic and dielectric breakdown strength.

### Characteristics

### A type fabric / K type fabric

This is a high-performance composite material obtained by impregnating and sintering fluororesin dispersion onto a Para-Aramid cloth.

- Basic properties are similar to those of G-type.
- This product has superior mechanical strength and vapor resistance, in particular, to G type fabric.

### Antistatic type fabric

This is a high-performance material added antistatic effect. You can use this for any application where you have a static electricity problem.

- Basic properties are similar to those of G-type.
- We can offer black or gray colored product depending on the application.

### Explanation of product code

e.g.) **F G F - 4 00 - 3**

Abbreviation	Base material	Appearance	Resin impregnation level	Cloth structure	Total thickness
F: Fabric H: Super fabric	G: Glass cloth A/K: Aramid cloth	F: Natural B: Black C: Gray Y: Blue	3: Below the standard 4: Standard 5: Above the standard	00: Plain weave 10: Mesh	Indication x25/1000 (mm)

### Silicone fabric

This is a composite material made by silicone resin coating on glass or nylon based cloth. Especially, it has heat resistance and releasing ability. As it is flexible, it can be sewn.

### Characteristics

release sheet / heat seal releasing materials / insulating materials / airbags / heater covers / etc.

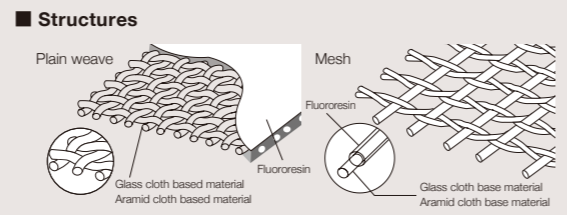
### Maximum service temperature

- Glass cloth based material: +200°C
- Nylon cloth based material: +150°C

### Explanation of product code

e.g.) **F G S - 6 004 W N**

Base material	Coating specification	Top coating	Base coating color
G: Glass cloth N: Nylon cloth	5: One side coating 6: Both side coating 7: One side fluororesin / One side silicone resin	N: None T: One side W: Both sides	N: Natural W: White E: Green A: Gray/Silver



For more information



### Super fabric

This fabric has superior anti-penetration property, durability and the highest slippage characteristic to G type fabric.

- Especially, it has excellent non-stick property and releasing ability.
- It has excellent anti-penetration and gas barrier properties.

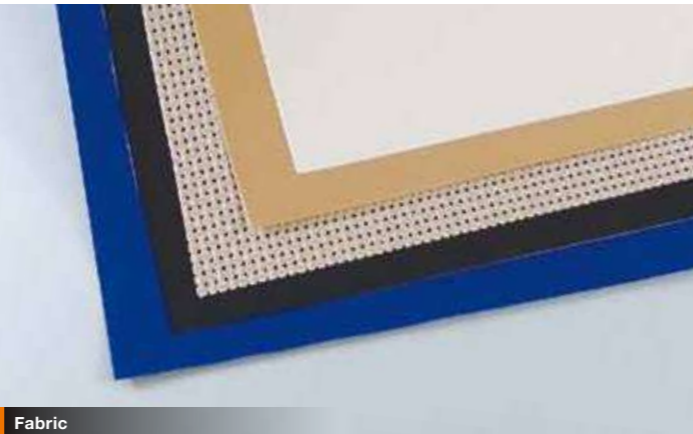
### Characteristics

### MS fabric

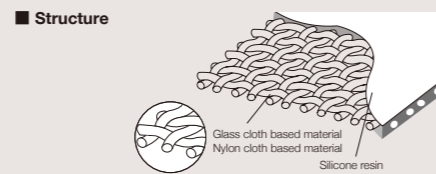
This fabric has the enhanced release effect by forming a special resin layer on the surface of G type fabric.

- Especially, it has excellent non-stick property and releasing ability.

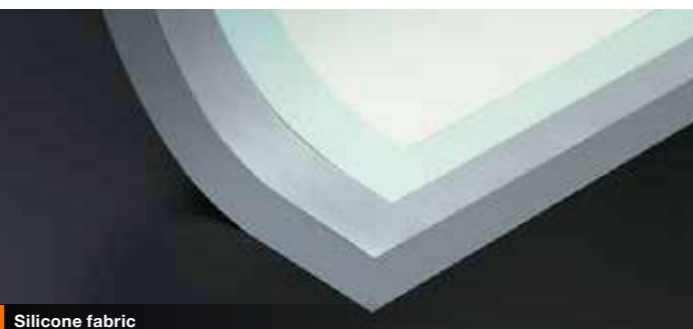
### Characteristics



Fabric



For more information



Silicone fabric

## Typical dimensions and properties

Grade	Product code	Total thickness (mm)	Maximum width (mm)	Standard width (mm)	Mass (g/m <sup>2</sup> )	Tensile strength (N/cm)		Tear strength (N)		Breakdown voltage substrate only (kV)	Volume resistivity (Ω·cm)	Surface resistivity (Ω)	FSA of Japan	
						Warp	Fill	Warp	Fill					
G type fabric	Natural / plain	FGF-400-2	0.045	300, 600, 1040	70	60	50	4	4	1.0	10 <sup>15</sup>	10 <sup>14</sup>	○	
		FGF-500-2	0.050		100	65	50	4	4	1.5			○	
		FGF-400-3	0.075	300, 600, 1000	130	150	130	7	5	3.8			○	
		FGF-500-3	0.080		165	150	130	6	4	4.9			○	
		FGF-300-4	0.095	300, 600, 1040	135	240	140	20	7	—			○	
		FGF-400-4	0.095		175	290	160	13	5	4.3			○	
		FGF-500-4	0.100	300, 600, 1000	215	290	160	10	5	5.0			○	
		FGF-300-6	0.110		170	300	280	20	12	—			○	
		FGF-400-6	0.115	300, 600, 1000	230	280	250	9	9	4.4			○	
		FGF-500-6	0.125		265	280	250	9	9	4.5			○	
	FGF-300-8	0.155	1040	190	310	310	40	40	—	○				
	FGF-400-8	0.160		265	330	310	20	20	3.5	○				
	FGF-500-8	0.170	1800	320	330	310	16	16	4.8	○				
	FGF-400-10	0.230		2100	425	500	410	35	31	5.9	○			
	FGF-500-10	0.240	2300	500	500	410	30	30	6.2	○				
	FGF-400-14	0.330	1000	485	710	540	80	65	5.1	○				
	FGF-500-14	0.350		580	710	540	62	51	5.3	○				
	FGF-400-22	0.540	2500	700	1000	690	175	140	5.6	○				
	FGF-501-21	0.580	3200	1125	820	650	150	95	6.0	○				
	FGF-400-35	0.915	2500	1220	1190	1050	220	190	7.1	○				
Natural / mesh	FGF-410-18	0.550	1550	1000	485	600	840	—	—	—	—	○		
	FGF-410-20	0.750	2000	1020	630	1230	830	—	—	—	—	○		
	FGF-410-30	0.950	3800	1070	510	480	580	—	—	—	—	○		
Antistatic (black) / plain	FGB-500-3	0.080	1040	1040	150	160	130	9	7	—	10 <sup>8</sup>	10 <sup>8</sup>	○	
	FGB-500-6	0.130	1550	1040	255	300	250	12	12	—	—	—	○	
	FGB-500-10	0.245	2300	1000	485	470	450	43	40	—	—	—	○	
Antistatic (black) / mesh	FGB-207-6-1	0.110	1040	1040	125	190	190	74	55	—	—	—	○	
	FGB-410-30	0.950	3800	3800	520	440	550	—	—	—	—	—	○	
Antistatic (gray) / plain	FGC-500-10	0.240	1040	1040	500	490	410	26	25	—	10 <sup>8</sup>	10 <sup>8</sup>	○	
Colored (blue) / plain	FGY-500-10 Blue	0.245	1000	1000	485	440	340	22	20	5.2	—	—	○	
A type fabric	Natural / plain	FAF-500-6	0.125	1000	1000	170	610	480	79	53	3.9	10 <sup>15</sup>	10 <sup>14</sup>	○
		FAF-500-8	0.175			240	840	700	180	170	4.5			○
		FAF-500-12	0.310			440	1800	1400	420	400	5.1			○
Natural / mesh	FAF-410-30	1.100	2100	2100	415	1100	1200	—	—	—	—	—	○	
K type fabric	Natural / plain	FKF-500-12	0.330	2000	2000	505	1330	1330	180	230	5.4	—	—	○
Super fabric	Natural / plain	HGF-500-3	0.115	1000	1000	180	190	150	12	9	4.0	10 <sup>15</sup>	10 <sup>14</sup>	○
		HGF-500-6	0.140			230	310	230	25	16	6.0			○
		HGF-500-10	0.230			410	480	430	35	17	6.6			○
MS fabric	Natural / plain	MS-053	0.080	1040	1040	165	140	110	6	5	5.1	—	—	○
		MS-056	0.125			265	280	270	11	12	4.7			○
		MS-038	0.165			275	320	310	23	27	3.2			○
Test method						—	—	—	—	JIS L 1096 (Cut-strip method)	JIS L 1096 (Trapezoidal method)	JIS C 2110-1	JIS K 6911	*1

\* Values shown in this table represent measurements and do not constitute guaranteed values. \* Please consult us separately for the dimensions other than above. \*1 Specified Standard of Japan for food equipments and packages: General specification test for plastic equipments by the general requirement notification No.20 of Ministry of welfare 1982 (as of March 2018)

## Typical dimensions and properties

Grade	Product code	Total thickness (mm)	Standard width (before cutting edge) (mm)	Mass (g/m <sup>2</sup> )	Tensile strength (N/m <sup>2</sup> )		Peel strength (N)		Breakdown voltage substrate only (kV)	Volume resistivity (Ω·cm)	Surface resistivity (Ω)	FSA of Japan		
					Warp	Fill	Warp	Fill						
Both side silicon	Green / nylon plain weave	FNS-6002NE	0.33	1400 (1560)	260	630	570	340	390	3.4	10 <sup>15</sup>	○		
	Natural / glass plain weave	FGS-6004WN	0.14	1000 (1100)	180	350	290	20	20	4.8	—	—		
	Silver / glass plain weave	FGS-6014NA	0.18	1200 (1280)	270	260	210	96	79	2.4	10 <sup>14</sup>	10 <sup>14</sup>		
One side silicon	Natural / G type fabric	FGS-5014NA	0.18	1200 (1280)	230	230	180	81	76	2.6	—	—		
	Natural / G type fabric	FGS-7001	0.35	950 (1040)	600	580	490	26	25	7.0	10 <sup>15</sup>	○		
Test method						—	—	—	—	ISO-13934-1	ISO 13937-2	JIS C 2110-1	JIS K 6911	*2

\* Values shown in this table represent measurements and do not constitute guaranteed values. \* Please consult us separately for the dimensions other than above. \* It is normally offered as "before cutting edges". \*2 Specified Standard of Japan for food equipments and packages: General specification test for rubber equipments (exclusive of feeding equipments) by the general requirement notification No.370 of Ministry of welfare 1954 (as of March 2018)