



CPI-FG expanded graphite sealing sheets combines excellent chemical resistance with an exceptionally wide temperature range to provide outstanding sealing integrity over extended periods. Widely used in chemical, petrochemical and other industries.

Specifications:

Spec.	Test method	Unit	FG
Purity		%	> 99.0
Tolerance in thickness		< +	0.05
Resistance to tension		Mpa	> 3.5
Carbon content	-	% min	98
Density of graphite	ASTM F1315	g/cm ³	0.70~1.10
Ash content	ASTM C561	% max	1
Sulfur content	ASTM C 816	Ppm Max	700
Chloride content	ASTM D 129	Ppm Max	50
Recovery	ASTM F 38 B	%	5
	ASTM DIN 52913	Mpa	48
	BS 7531	Mpa	38
Sealing capacity	ASTM F 37 B	ml/min	0.5
	DIN 3595/4	ml/min	< 1
	BS 7531	ml/min	< 1
Temperature	Oxidizing	°C	-240~450
	Non-oxidizing	°C	-240 ~3200
Pressure	-	Bar	100
Compressibility	ASTM F36 A	% min	40
Recovery	ASTM F36 A	% min	16
Creep strength	At 50 N/mm ² , 300°C 16hrs. DIN 52913	N/mm ² min	-
Gas permeability	DIN 3535, T1.50mm	cm ³ /min	0.8
Thickness of metal	-	Mm	-
Thickness	-	Mm	0.38 ~1.0 (roll) 0.38~5.0 (sheet)

Chemical resistance table

	FG		FG
Acetic acid 10%	A	Chlorine wet	C
Acetone	A	Chloromethane	A
Acetylene	A	Chloroform	A
Adipic acid	A	Chromic acid (up to 20%)	B
Air	A	Iso-Octane	A
Alum	A	Isopropyl alcohol	A
Aluminium chloride	A	Kerosene	A
Ammonia	A	Methylene chloride	A
Ammonium hydrogenohospate	A	Nitric acid 20%	A
Ammonium hydroxide	A	Nitric acid (over 85%)	C
Ammonium chloride	A	Nitric acid (up to 65%)	B
Aniline	A	Nitrobenzene	A
Aqua regia	C	Nitrogen	A
Asphalt	A	Oil crude naphtha	A
Barium chloride	A	Oil heating	A
Benzene	A	Oil hydraulic mineral	A
Boric acid	A	Oil motor	A
Butane	A	Oil silicone	A
Butyl alcohol	A	Oil transformer	A
Calcium hydroxide	A	Oxalic acid	B
Calcium hypochlorite	A	Oxygen (up to 350°C)	A
Calcium sulphate	A	Paraffin	A
Carbon dioxide	A	Petrol	A
Carbon disulphide	A	Phenol	A
Cooper sulphate	A	Phosphoric acid 95%	A
Cyclohexanole	A	Potassium cyanide	A
Cyclohexanone	A	Potassium dichromate	B
Di-butyl phthalate	A	Potassium chloride	A
Ethane	A	Potassium iodide	A
Ethyl acetate	A	Potassium nitrate	B
Ethyl alcohol	A	Soap solutions	A

A: Suitable

B: Suitable depends on operating conditions

C: Not suitable

Format: Rolls

Corrosion inhibitor: metal salt, which reduces the oxidation of steel. Does not contain zinc.