

黏胶基碳毡/石墨毡 Adhesive-based carbon felt /graphite felt



产品特点：黏胶基碳毡/石墨毡是一种植物树脂纤维制成的碳纤维毡、具有良好的保温性、灰分低、质地柔软等特点。是高温炉保温的常用材料可以用于拉制 P 型、N 型单晶硅。

Product features: Adhesive-based carbon felt/graphite felt is a carbon fiber felt made from plant resin fibers. It has excellent thermal insulation properties, low ash content, and a soft texture. It is a commonly used material for thermal insulation in high-temperature furnaces and can be used for drawing P-type and N-type single-crystal silicon.

理化指标 Physical and chemical index:

项目 ITEM		RCF (黏胶基) 炭毡 Carbon fiber felt	RCF (黏胶基) 石墨毡 Graphite fiber felt	PAN炭毡 Carbon fiber felt	PAN石墨毡 Graphite fiber felt
体积密度 Bulk density(g/cm³)		0.11-0.13	0.09-0.12	0.10-0.16	0.10-0.15
含炭量 Carbon (%)		≥90	≥99.9	≥97	≥99.9
导热系数 Thermal conductivity (1150°C)(W/m·k)		0.09-0.15	0.08-0.12	0.05-0.5	0.05-0.5
抗拉强度 Tensile Strength(Mpa)		0.13	0.1	0.15	0.14
压缩10%压应力 Crushing stress at 10% compression(N/cm²)		6-10	5-8	8-12	8-10
灰分 Ash (PPM)		≤0.05	≤200 (可定制)	≤1500(可定制)	≤500 (可定制)
处理温度 Processing temperature(°C)		1000	2200	1000	2200
使用环境 Operating Condition	空气 In the air(°C)	≤300	≤300	≤300	≤300
	真空 In the vacuum(°C)	≥2200	≥2800	≤2400	≤2800
规格 SPEC	长度 Length (m)	16-18	16-18	0-28	0-28
	宽度 Wide (mm)	1000-1400	1000-1300	≤1750	≤1600
	厚度 Thickness (mm)	3-10	3-10	3-14	3-10

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