

Product specification

Product:	Alumina ceramic board heating Resist paste
Part number:	05H18

Application scope :

This product is suitable for alumina ceramic heating circuit.

Usage conditions:

Substrate	Alumina ceramic
Printing	200-250 mesh screen printing
Leveling	Let it level at room temperature for 5-15 minutes (adjust time based on actual leveling conditions).
Drying	Bake in a ventilation oven at 100-150°C for 10-15 minutes (if the test temperature is below 300°C, adjust the baking time based on actual conditions).
Firing Condition	The sintering temperature is 850°C (recommended value) for 10 minutes in the atmosphere of tunnel furnace.
Thinner	ST1001

Characteristics:

1. Paste characteristics:

Characteristic	Standard	Test method and conditions
1 Fineness	$\leq 8\mu\text{m}$	FOG test
2 Viscosity	120-280Pa.s	Brookfield HBT (Boli Fei) viscometer, rotor model SC4-14/6R, operates at 10rpm with a temperature range of $25\pm 1^\circ\text{C}$. The viscosity can be adjusted according to the user's specific requirements.

2. Characteristics after curing:

Under the first sintering condition, the film thickness is 8-12 μm . Check fired film produced under the conditions specified in 1) , (Film thickness is 8-12 μm .)

Characteristics	Standard	Test method and conditions
3 Appearance	compact and dense	Eyeballing
4 Resistivity	As below form	Standard film thickness is 10μm.
TCR	As below form	HTCR 25-125°C

Product line	Alumina ceramic board heating Resist paste			
P/N	Resistivity (Ω/□)	TCR (ppm/°C)	Sintering	Viscosity (kcps)
05H18-0R005xx	0.01	The last two letters repreent TCR (ppm/°C) 30--->3000ppm 15--->1500ppm 12--->1200ppm 05--->500ppm 03--->300ppm	850°C	120~280
05H18-0R010xx	0.01			
05H18-0R020xx	0.02			
05H18-0R030xx	0.03			
05H18-0R050xx	0.05			
05H18-0R100xx	0.10			
05H18-0R200xx	0.20			
05H18-0R300xx	0.30			
05H18-0R500xx	0.50			
05H18-1R000xx	1.00			
05H18-3R000xx	3.00			
05H18-4R000xx	4.00			
05H18-5R000xx	5.00			
05H18-011xx	10.00			
05H18-021xx	20.00			
05H18-051xx	50.00			
05H18-101xx	100.00			
05H18-102xx	1000.00			

Save conditions and validity period :

The product should be stored in a sealed container at 5-25°C, with a shelf life of six months from the date of shipment.

Packaging method:

1000g/can