



New Rear Aluminum Paste for Solar Cells

Targray #: PASTE9114B

GSMC #: 136

PASTE9114B is the new rear aluminum that provide excellent back surface field for mono and poly crystalline silicon solar cell wafers. Designed for excellent efficiency, better adhesion strength, high material compatibility and wide process window.

Product Features

- Excellent back surface field for high efficiency
- High compatibility with Si wafer, rear silver paste
- Better adhesion strength
- High conductivity by paste composition after firing
- Excellent ink transfer for screen printing
- Wider process window with front side silver paste
- RoHS compliant

Product Specification

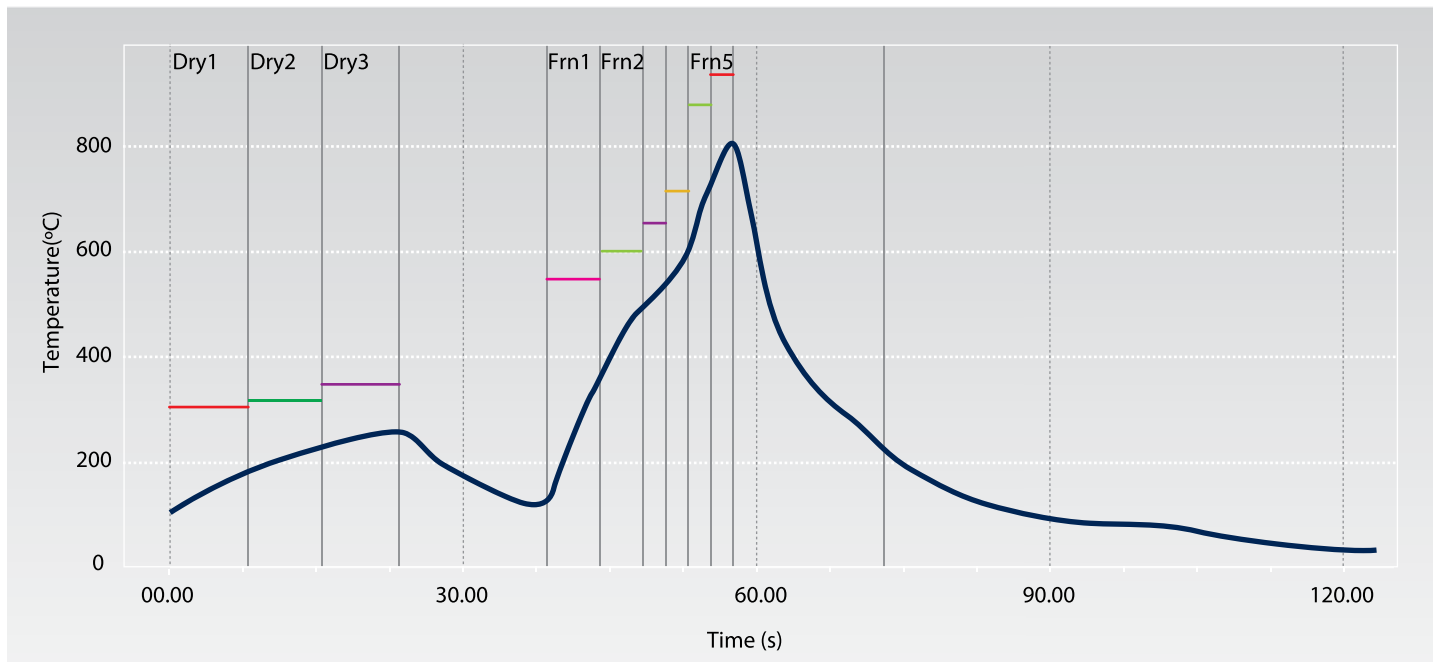
Viscosity ⁽¹⁾	30±10 kcps
Fineness of grind	5~10 μm
Solids Content	70~80%
Rheology	Thixotropic, screen printable paste
Sheet Resistivity	<15 mΩ/square
Appearance	Silver gray
Wafer Types	Mono and poly crystalline

⁽¹⁾ Viscosity measured with Brookfield DV-II+CPC, #51 spindle, 38.4 sec-1, 10 rpm / 1 min, 25 °C.

Processing Recommendations

Application	Standard screen print process		
Screen Mesh / Emulsion Thickness	200, 250, 280 mesh / 15~25 µm		
Printing	1.4±0.1 g for 6" poly crystalline		
	0.9±0.1 g for 5" mono crystalline		
	Snap off: 1.5~2.5 mm		
	Speed: 160~300 mm/s		
	Pressure: 65~80 N		
Drying	2 min at 200-200-230 °C, 3 zone		
Firing	Furnace	Infrared	
	Set Points	Dryer 1~3: 300, 320, 340 °C	
		Furnace 1~6: 550, 600, 650, 720, 865, 910 °C	
	Belt Speed	220 IPM	
	Peak Firing Temp.	750-800 °C	

Typical Firing Profile



Storage Methods

- Keep the containers in a tightly sealed condition and store in a clean, dry, stable environment at room temperature <30 °C, relative humidity <80%RH
- Please store and use in a cleaning room after opening the container
- Shelf life of materials in unopened condition is nine months from date of shipment
- Mix thoroughly before using



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