

Aluminum paste Al 7533 SC



REFINING AND FINE CHEMICALS · THICK FILM DIVISION

REV 0

15/08/2012

TECHNICAL DATA SHEET

Benefits

- Stable electrical and mechanical performances for laydown in a 1.4-1.6 g/cell range (6 inches sq. cells)
- Superior adhesion of fired layer
- Very good passivation
- High electrical conductivity (10-15 mΩ/□)
- Excellent printability
- Reduced lay-down (5 mg/cm²)
- Easy cleaning (hydrosoluble)

STANDARD TEST CONDITIONS

Viscosity: Determined on TA Discovery HR1, cone SST ST 40mm 4 deg smart-swap

PROCESSING CONDITIONS

Printing: typical industrial parameters: 200 – 280 mesh stainless steel screen, emulsion 15 – 25 μm thickness. Snap off 1.6 – 2.0 mm, speed 180 – 300 mm/s, pressure 60 – 70 N

Drying: 2 min @ 200 – 200 – 230 °C

Firing: 1 – 6: 500-600-650-720-865-910 (setting); peak temperature 780 – 840 °C; belt 6400 – 7200 mm/min (best conditions)

Thinners: Thinning is not recommended, the paste is optimized to the correct viscosity for screen printing

Storage & Self Life: min. 6 months when properly stored in tightly closed containers at room temperature (< 25°C)

Recommendation: Before use please stir paste gently with a spatula for homogenisation. Keep paste at room temperature for 12 h before opening container.

TYPICAL PROPERTIES

Viscosity	40 - 50 Pa.s @ 10s ⁻¹
Fineness of grind	< 20 μm
Wet deposit (280 mesh screen)	5 – 7 mg/cm ²
Fired thickness	20 – 30 μm

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Chimet “Thick Film Division”. Via di Pesciola 74, 52040 Vicinaggio (Arezzo) Italy . Tel +39 0575 441565 - Fax +39 0575 441424