

# Aluminum paste Al 7533 SC

**chimet**<sub>sp.a.</sub>

REV 0

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REFINING AND FINE CHEMICALS · THICK FILM DIVISION

## 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/cm<sup>2</sup>)
- 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 <sup>-1</sup>
Fineness of grind	< 20 μm
Wet deposit (280 mesh screen)	5 – 7 mg/cm <sup>2</sup>
Fired thickness	20 – 30 μm

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