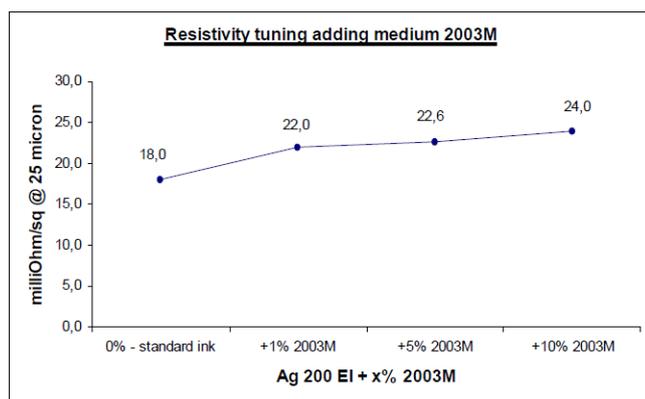


Ag 200 EI

Application: Ag 200 EI is an electrically conductive ink suitable for application by screen printing; it is a low temperature silver filler ink for transparent conductive layer as, for example, Indium Tin Oxide (ITO) coated glass or soda lime glass.

BENEFITS

- Low firing temperature
- Good adhesion on different substrates
- Low resistivity to allow good conductivity on different conductive layers
- Very good contact resistance when cured on conductive layers
- Designed to give a good balance between long open time on screens and short drying time in subsequent drying processes
- Can be diluted with medium 2003M for tune resistivity *:



* depending on the wet deposit and the curing conditions absolute values maybe slightly different

* stir paste gently with a spatula to avoid bubbles entrapment and good homogenisation

STANDARD TEST CONDITIONS

Printing: 230 – 325 mesh. A polyurethane squeegee with a shore A durometer between 60 and 70 is recommended.

Drying: 15' @ 200°C (best conditions) or 30' @ 150°C.

Table 1. TYPICAL PROPERTIES

Viscosity

15 – 25 Pa*s

Fineness of gring:

< 12 µm

Thickness:

7 – 10 µm

Resistivity:

< 20 mΩ/□ @ 25 µm

Contact resistance:

4 mΩ·cm² on 45 Ω/□ ITO [^]

802 µΩ·cm² on 60 Ω/□ ITO ^{**}

[^] annealing 30' @ 150°C

^{**} annealing 15' @ 200°C

Viscosity test:

Brookfield Viscometer *DV-II+* Pro; spindle 14, 10 r.p.m., 25.0±0.5°C.

SHELF LIFE

Min. 6 months when properly stored in tightly closed containers at room temperature (< 25°C).

THINNING

Use thinner 0320IT to replace solvent. Higher percentage than 1% could affect resistivity.

CLEAN UP SOLVENT

Butylene, propylene or ethylene glycol ethers or corresponding acetates. Dibasic esters.

DISCLAIMER

The data published in this document come from experiments carried out in our laboratories and performed in conditions believed to be the most commonly accepted by the industry. It is the end-user's responsibility to check whether this product can be efficiently used in his specific process and under his specific industrial conditions which Chimet can neither control nor foresee. Chimet makes no warranties expressed or implied arising from the product use. Chimet specifically disclaims any liability for consequential or incidental damages of any kinds, including lost profits.

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