

## Technical Data Sheet

### THICK FILM MATERIALS

**Product Type:** End Terminations

**Product Name:** ET1893



Pb and Cd Free Plateable Silver End Termination

#### Description

ET1893 is a Pb and Cd free, low temperature plateable Ag End Termination. ET1893 has excellent adhesion to a variety of ceramic compositions when fired at  $\leq 600^{\circ}\text{C}$ . ET1893 is supplied with a rheology suitable for automatic dipping machines.

#### Key Benefits

- Nickel plateable
- Firing temperature less than  $600^{\circ}\text{C}$
- Machine dipable
- REACH<sup>1</sup> and ROHS<sup>2</sup> compliant

#### Typical Properties

##### Metal Type

Silver

##### Viscosity

15 – 30 Kcps Brookfield RVT  
SC4 – 14 spindle, 6R utility cup at 10 rpm,  $25^{\circ}\text{C}$

##### Solids

$79.0 \pm 1.0\%$

##### FOG

Less than  $10\ \mu\text{m}$  (at 4<sup>th</sup> scratch)

#### Recommended Processing Guidelines

##### Drying

$150^{\circ}\text{C}$  for 10 minutes

##### Firing

$525 - 600^{\circ}\text{C}$  peak temperature  
Dwell time of 1 – 2 minutes at peak

##### Thinner:

RV-372

##### Warranty:

Material guaranteed to meet specifications for 6 months from date of shipment.

##### Storage:

Store in a dry location at  $5 - 25^{\circ}\text{C}$ .

##### **DO NOT REFRIGERATE.**

Allow paste to come to room temperature prior to opening.  
Spatulate well before using, as settling may occur during storage.

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Legend:

1) REACH compliant according to the latest \* Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

2) RoHS compliant according to the latest \* Directives (European Union) of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions related to Pb)

**Heraeus Electronics**  
Heraeus Deutschland GmbH & Co. KG  
Heraeusstraße 12 – 14  
63450 Hanau, Germany  
[www.heraeus-electronics.com](http://www.heraeus-electronics.com)

**Americas**  
Phone +1 610 825 6050  
[electronics.americas@heraeus.com](mailto:electronics.americas@heraeus.com)

**China**  
Phone +86 21 3357 5457  
[electronics.china@heraeus.com](mailto:electronics.china@heraeus.com)

**Asia Pacific**  
Phone +65 6571 7677  
[electronics.apac@heraeus.com](mailto:electronics.apac@heraeus.com)

**Europe, Middle East and Africa**  
Phone +49 6181 35 3069, +49 6181 35 3627  
[electronics.emea@heraeus.com](mailto:electronics.emea@heraeus.com)