Sprayable Ag Termination for PZT

**Description**

ST1433 is a sprayable silver metallization developed for lead zirconate titanate (PZT) ceramic bodies. Its rheology is suitable for spray application for fragile substrates or contoured surfaces where printing is not practical. It will fire to a dense film for maximum capacitance.

ST1433 also has excellent adhesion and solderability. ST1433 is supplied at a viscosity for spraying or brushing. Additional thinning is permitted to fit different spray equipment and process.

**Key Benefits**

- REACH compliant
- Specially formulated for use on PZT ceramics
- Viscosity ready for spray
- Excellent solderability and adhesion

**Typical Properties**

**Metal Type**

Silver

**Viscosity**

3000 – 5000 cps, Brookfield
Spindle #14 in utility cup, at 10 rpm, 25 °C

**Solids**

70.0 – 73.0 %

**Recommended Processing Guidelines**

**Application**

The material should be thoroughly shaken in its container before use. Ensure it is homogeneous and no sedimentation
Apply the materials by dipping or spraying.

**Drying**

150 °C for 5 – 10 minutes

**Firing**

550 – 650 °C peak temperature
Dwell time of 5 – 7 minutes at peak

**Thinner**

RV-916

**Warranty**

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

**Storage**

Store in a dry location at 5 – 25 °C.

**DO NOT REFRIGERATE.**

Allow paste to come to room temperature prior to opening. Spatulate well before using, as settling may occur during storage.
The descriptions and engineering data shown here have been compiled by Heraeus using commonly accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for particular applications.

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.

* See the data sheet issue date (DD/MM/YY) as reference of validity of latest edition which is available on request.