



部分稳定氧化锆生瓷带

42013-A

PARTIALLY STABILIZED ZIRCONIA TAPE

用于平板式传感器的高温PSZ生瓷带

RoHS compliant* high temperature PSZ tape for use in planar sensors

ESL 42013-A是分散在有机基体里的PSZ粉末形成的弹性挤塑薄膜。在1450°C-1550°C的温度范围内烧结，形成致密白色的陶瓷生带。该产品是定型在硅涂层聚酯薄膜上，防止其受到机械损伤，且有利于操作处理。该生瓷带通常与铂浆（ESL5570系列）共烧，应用于平板式传感器。

ESL 42013-A is a flexible cast film of partially stabilized zirconia (PSZ) powder dispersed in an organic matrix. This material is designed to be sintered in the temperature range of 1450°C-1550°C to yield a dense white-colored ceramic. ESL 42013-A tape is provided on a silicone-coated polyester film to protect the tape from mechanical damage and aid in handling. This tape is generally used with Pt inks (ESL 5570 Series) that can be co-fired for use in planar sensors.

产品特性 TYPICAL PROPERTIES

生瓷带厚度 TAPE THICKNESS: (custom thicknesses available) 125 μm ±10%

操作工艺 PROCESSING

标准烧结温度峰值 TYPICAL PEAK SINTERING TEMPERATURE FOR PARTS: (1500°C,3 h)

稳定剂 STABILIZING AGENT: Y2O3 氧化钇

稳定剂含量 STABILIZER CONTENT: 5.0mol %

烧结收缩率 FIRED SHRINKAGE: X: 17.3 ± 1.0 %

(12-layer bar fired at 1500° C for 3 hours) Y: 18.3 ± 1.0 %

烧结密度 FIRED DENSITY:(1500° C for 3 hours) theoretical ≥ 97%

烧结前，零部件由空白生瓷带形成所需要的初始尺寸大小。烧结周期取决于零部件的构型和尺寸。

Parts are formed by blanking sheets of the tape to the required green size prior to sintering. The burnout cycle depends on the part configuration and size.