TECHNICAL DATA SHEET



S-200Y NP

YELLOW THERMAL CURE LEGEND INK

- **Screen Print Application**
- **♥** Available in Yellow (S-200Y NP)
- **Withstands ENIG & Immersion Tin**
- **RoHS** Compliant
- **TEXAMPLE 1** Excellent Heat Resistance in HASL
- **W** Low Odor

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PROCESSING PARAMETERS FOR S-200Y NP LEGEND INK

Taiyo S-200Y NP (yellow) is a two-component, thermal curable legend ink having outstanding printability, adhesion, and color retention. **S-200Y NP** legend inks are available in 1 kg-set size. All Taiyo America products comply with the Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the Restriction of the use of certain Hazardous Substances (RoHS) in electrical and electronic equipment.

S-200Y NP COMPONENTS		S-200Y NP	/ HD-3
_	Mixing Ratio	100 parts	8 parts
	Color	Yellow	White
	Warranty Period	iod 6 months at ≤ 68°F	

MIXING

S-200Y NP is supplied in pre-measured containers with a mix ratio by weight of 100 parts **S-200Y NP** and 8 parts **HD-3**. **S-200Y NP** can be mixed by hand with a mixing spatula for 5-10 minutes. Mixing can be done with a mechanical mixer at low speeds to minimize shear thinning for 5-10 minutes. Also, mixing can be done with a paint shaker for 5 minutes. The pot life after mixing is 8 hours. The S-200 may be diluted with glycol ether and propylene glycol ether solvents.

PRE-CLEANING Prior to legend ink application, the surface needs to be free of contaminates. We recommend that the surface be cleaned chemically to make sure there are no contaminates on the surface. It is not a good idea to mechanically scrub the solder mask prior to applying the legend ink.

2 | P a g e Revised April 14, 2016

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SCREEN PRINTING

Method: Single Sided and Double Sided Screening

• Screen Mesh: 200 – 305

Screen Mesh Angle: 22.5° Bias
Screen Tension: 20 - 28 Newtons
Squeegee: 60 – 80 durometer

• Squeegee Angle: 27 – 35°

• Printing Mode: Flood / Print

FINAL CURE

S-200Y NP needs to be thermally cured to insure optimal final property performance. Thermal curing can be done in a batch oven or conveyorized oven.

Temperature: 300°F (149°C)

Time at Temperature: 25 – 30 minutes

For Process Optimization please contact your local Taiyo America Representative

FINAL PROPERTIES FOR S-200Y NP LEGEND INK

Test	Test Method / Requirement	Results
Pencil Hardness	Internal Test	8H
Adhesion after Cure	Rigid – Cu, Ni, FR-4	Pass
Adhesion after Soldering	Internal Tape Test	Pass
Resistance to Solder	No Solder Sticking	Pass

Taiyo America, Inc. (TAIYO) warrants its products to be free from defects in materials and workmanship for the specified warranty period (\$200Y NP /HD-3 Warranty period is 6 Months) provided the customer has, at all times, stored the ink at a temperature of 68°F or less. TAIYO accepts no responsibility or liability for damages, whether direct, indirect, or consequential, resulting from failure in the performance of its products. If a TAIYO product is found to be defective in material or workmanship, its liability is limited to the purchase price of the product found to be defective. TAIYO MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE. TAIYO'S obligation under this warranty shall not include any transportation charges or costs of installation or any liability for direct, indirect, or consequential damages or delay. If requested by TAIYO, products for which a warranty claim is made are to be returned transportation prepaid to TAIYO'S factory. Any improper use or any alteration of TAIYO'S product by the customer, as in TAIYO'S judgment affects the product materially and adversely, shall void this limited warranty.