



Product Name  <b>ECOSOLDER BAR M24AP</b>	Spec. No	PS8.2.2-111	Prepared by	Approved by
	Date	15 / 02 / 2021		
	Revision	1.3		
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## 1.0 SCOPE

This specification describes the product specification for **ECOSOLDER BAR M24AP**, used for wiring connection, etc. of electrical and electronics parts, among others.

## 2.0 PRODUCT SPECIFICATION

### 2.1 Chemical Composition of Solder (Test Method STM-9) Specified by JIS Z 3282 Grade A

Composition, wt%				
Sn	Ni	Cu	P	Ge
Bal	0.055 ± 0.015	0.60 ± 0.1	0.01 max	0.01 max

\*Regarding to Environment-Related Substances.  
This product conforms to **RoHS Directive**.  
**Note:** Pb and Cd are contained as an impurity of solder alloy, but the content is controlled to be less than 0.05% (500 ppm) for Pb and 0.002% (20ppm) for Cd

Impurity, wt% Less than		Impurity, wt% max.								
Pb	Cd	Sb	Bi	Fe	Zn	Al	As	Ag	Au	In
0.050	0.002	0.070	0.050	0.020	0.001	0.001	0.030	0.030	0.005	0.020

### 2.2 Physical Properties of Solder

Melting Temperature	Specific Gravity
Approx. 227°C	Approx. 7.4

### 2.3 Shape, Size, Weight etc.

Shape	Size (mm)			Weight/piece
	Length	Width	Thickness	
Manual Casting	325 ± 5	18 ± 2	Adjust to get the weight of each piece	450 ± 50g
Auto Casting	450 ± 5	20 ± 2		500 ± 20g

### 2.4 Appearance (Test Method: STM-1)

- 2.4.1 The surface shall be free from any noticeable defective gloss, adhesion of foreign matter or soil.
- 2.4.2 No noticeable scratch, crack or fissure is permissible.
- 2.4.3 Surface oxidation and mixture of oxide is not permissible.

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### 3.0 INSPECTION REPORT

Test report on the item specified below shall be issued for every production lot and attached with the shipment of the lot.

1. Chemical composition and impurities of solder (Test Method: STM-9)

### 4.0 PACKING PRESENTATION

#### 4.1 Packing

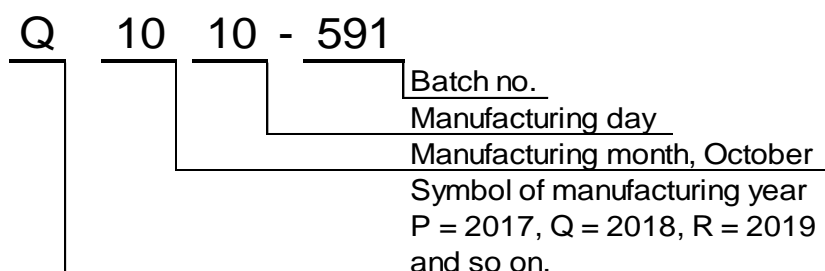
Item Packing	Outer Packing	Net Weight	Color of seal tape
Bare	Corrugated Paper-box with purple/white printing	10kg minimum	Yellow

#### 4.2 Marking

Presentation on Solder Surface	Presentation on outer Packing
<ol style="list-style-type: none"> <li>1. Company logo : SMIC</li> <li>2. Product Symbol: <ul style="list-style-type: none"> <li>▪ M24AP (Manual Casting)</li> <li>▪ ECO M24AP (Auto Casting)</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. Product Type – Ecosolder Bar</li> <li>2. Product Symbol – M24AP</li> <li>3. Alloy Composition</li> <li>4. Size</li> <li>5. Lot No.</li> <li>6. Manufacturing Date</li> <li>7. Net Weight</li> <li>8. Expiry Date</li> <li>9. Company Name and Logo</li> <li>10. Country of Origin</li> <li>11. GHS pictogram &amp; Hazard statement</li> </ol>

### 5.0 COMPOSITION OF LOT NUMBER

Example :



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## 6.0 WARRANTY PERIOD

The guarantee period shall be 4 years from the production date (Lot No.).

## 7.0 STORAGE AND HANDLING PRECAUTIONS

Stated in the separate documents, [Instruction Manual] and [Safety Data Sheet].

## 8.0 REGULATIONS

Stated in the separate documents, [Instruction Manual] and [Safety Data Sheet].

## 9.0 PRECAUTIONS IN HANDLING, STORING, AND DISPOSING

Stated in the separate documents, [Instruction Manual] and [Safety Data Sheet].

## 10.0 OTHERS

- We cannot guarantee the result of use nonconforming to or unspecified in this specification.
- You are requested not to divulge to or any other company or publicize any matter related to this specification.

## 11.0 TEST METHOD

### STM-1. Appearance

To be confirmed by visual observation concerning items in specification.

### STM-2. Unit Weight

To be weighed with apparatus which having a minimum graduation less than 5/10000 th of the maximum weighing capacity.

### STM-9. Chemical Composition of Solder

According to [JIS K 0116 General Rules for Atomic Emission Spectrometry] or to [JIS Z 3910 Methods for Chemical Analysis of Solder].