

Disclaimer

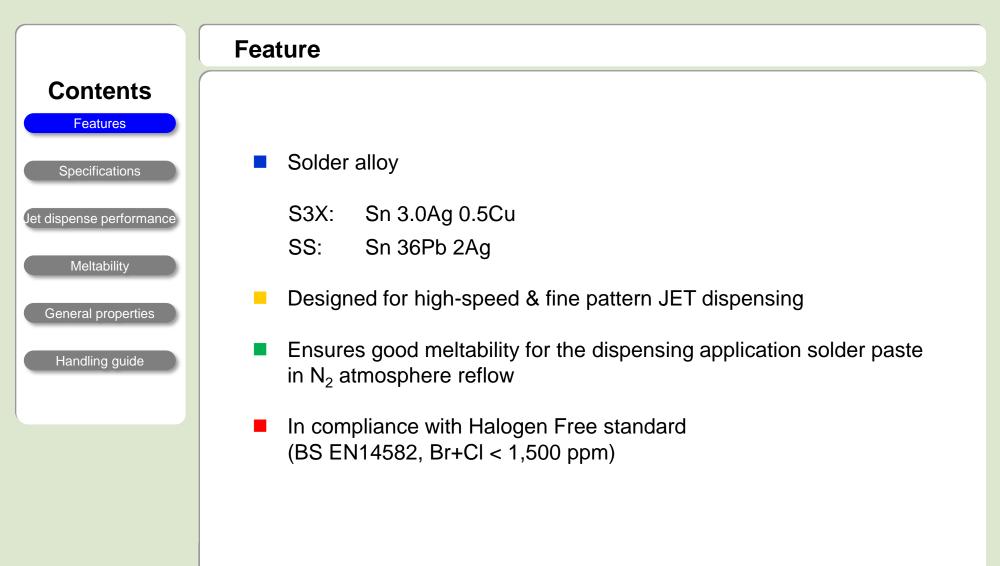


This Product Information contains product performance assessed strictly according to our own test procedures and is not the guaranteed results at end-users. Please conduct thorough process optimization before mass production application.







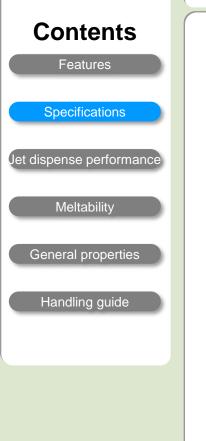








Specification



Application			Jet dispensing		
Product No.			S3X70-E160DN	SS70-E160DN	
Allo	Alloy composition (%)		Sn 3.0Ag 0.5Cu	Sn 36Pb 2Ag	
	Melting point (°C)		217 ~ 219	179 ~ 190	
	Shape		Sphere		
	Particle size (µm)		10 ~ 25		
Flux	Halide content (%)		0		
	Flux type*1		ROL0*3		
Product	Flux content (%)		15.0±1.0	13.0 ± 1.0	
	Viscosity*2 (Pa.s)		80±20	80 ± 20	
	Copper plate corrosion*3		Passed		
	Tack time		> 48 hours		
	Shelf life	0 ~ 10°C	3 months		
		-20 ~ -10ºC	6 months		

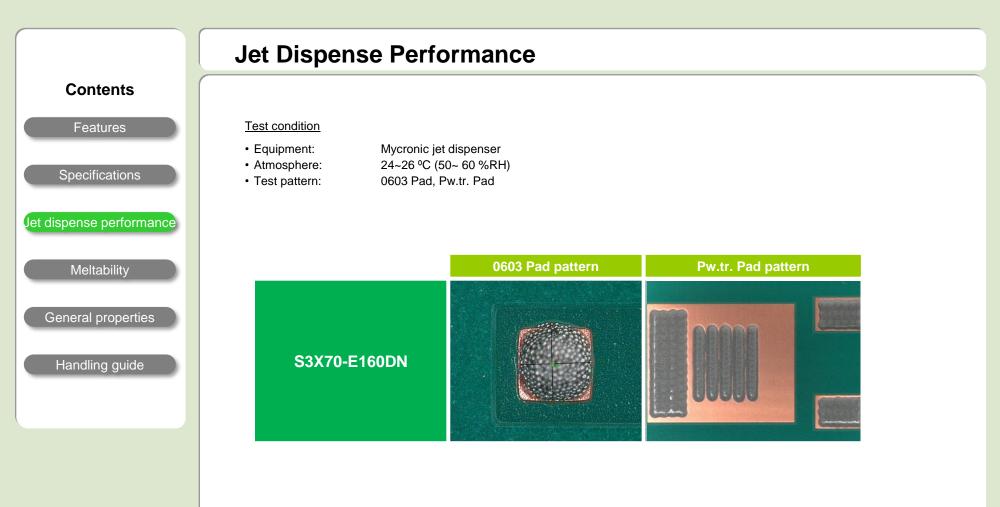
*1: Flux type:*2. Viscosity:

*3. Copper plate corrosion:

IPC J-STD-004A Malcom viscometer 25 °C~ 10 rpm IPC J-STD-004A





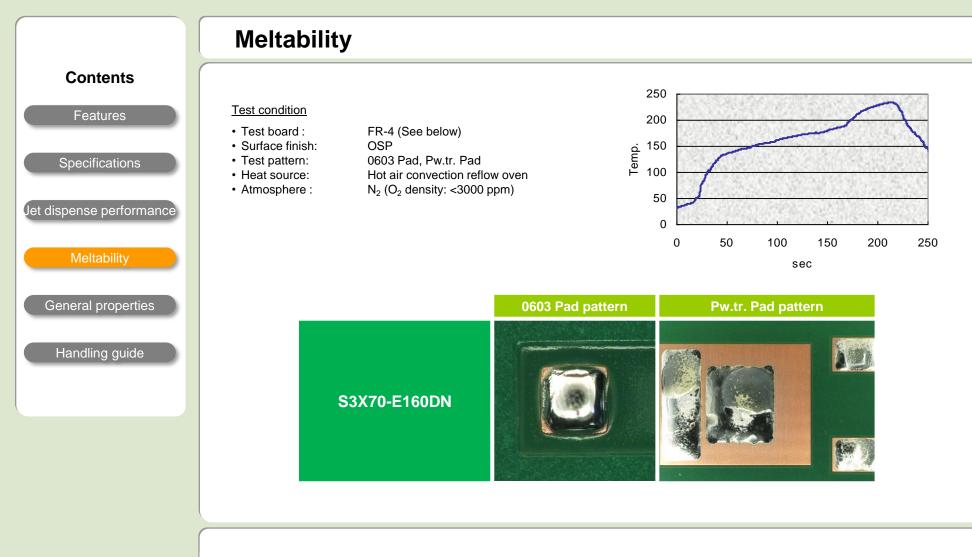




Good dispensability and consistent dispense volume.

















Other Properties				
Item	Result	Method		
Tack time	> 48 hours	JIS Z 3284-3		
Copper mirror test	Type L	IPC-TM-650 2.3.32		
Copper plate corrosion test	Pass	IPC-TM-650 2.6.15		
Surface insulation resistance	>1.0 x 10 ⁹ Ω	IPC-TM-650 2.6.3.3		
	Item Tack time Copper mirror test Copper plate corrosion test	Item Result Tack time > 48 hours Copper mirror test Type L Copper plate corrosion test Pass		







Handling Guide

Contents

Features

Specifications

Jet dispense performance

Meltability

General properties

Handling guide

1. Dispensing Condition

 Proper Needle Size: 	S3X70-E160DN	> 250 µm	
	SS70-E160DN	> 250 µm	
 Syringe Pressure: 	10 ~ 150 kPa		
Needle Shape:	Needle for jet dispensing		

*Optimal dispensing condition depends on the dispenser and the needle diameter. Please investigate best setting and combination on.

Usage Environment: 23 ~ 25°C / 40 ~ 60 % RH

2. Shelf Life • 0~10°C:

- 3 months from the date of production
- -10 ~ -20°C: 6 months from the date of production in a freezer for S3X70-E160DN only.
- *Store the product in a freezer upon delivery.

Take the product out of the freezer (beware of frostbite) and let stand in a room temperature $(20 \sim 30^{\circ}C)$ for 2 to 3 hours. A frozen syringe is more fragile than a syringe at room temperature. Please handle with care.

3. Pot life

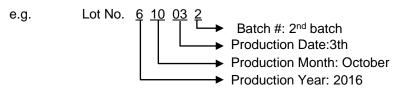
• Once it is returned to room temp. but no yet used: 3 months from manufacturing date by storing it back in refrigerator at 0~10°C

Recommended to use up within 24 – 168 hours (1 week)

*CAUTION: Make sure that no flux separation in a syringe can be observed.

4. How to interpret the product lot number

• Once it is started to use:











Contents

Features

Specifications

Meltability

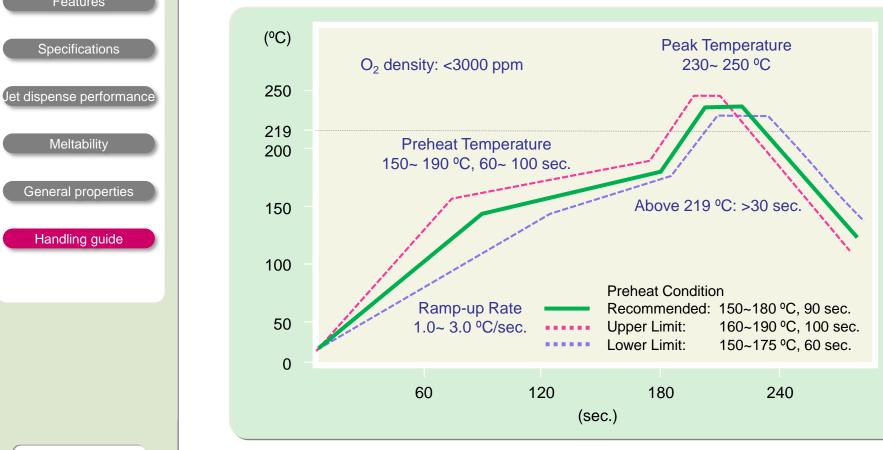
General properties

Handling guide





S3X70-E160DN













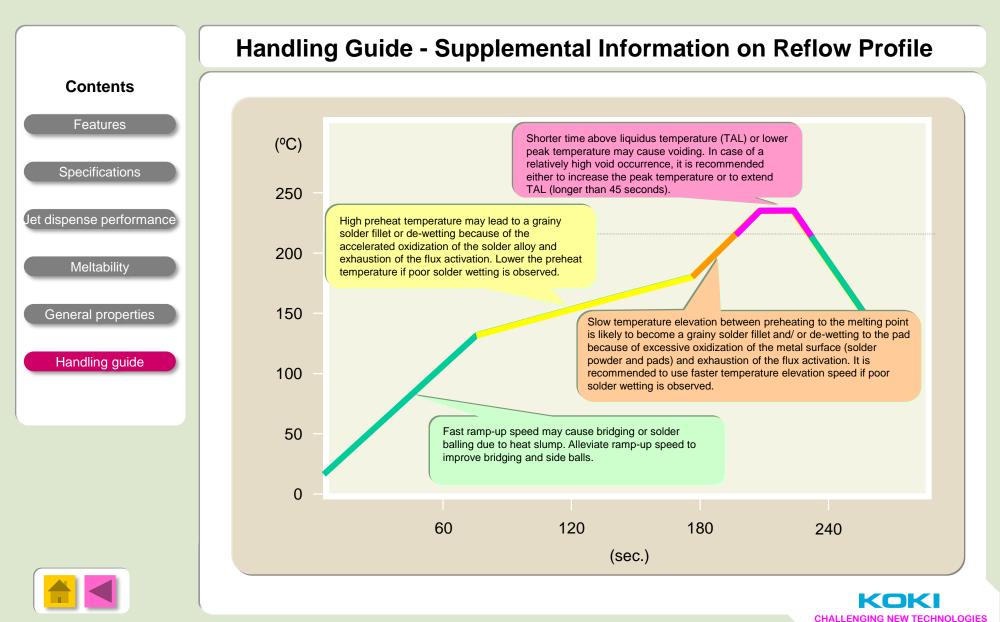
Handling Guide - Recommended Reflow Profile Contents **SS70-E160DN** Features (°C) Specifications Peak temp. O₂ density: <3000 ppm 210~ 230 °C 250 Jet dispense performance Pre-heat temp. Meltability 200 130~ 170 °C, 80~120 sec. 190 General properties 150 Over 190 °C >30 sec. Handling guide 100 Pre-heat conditions Ramp-up temp. Target : 140~160 °C, 100 sec. 1.0~ 3.0 °C/sec. 50 Upper limit: 160~170 °C, 100 sec. Lower limit: 130~150 °C, 60 sec. 0 60 120 180 240 (sec.)





8





9