

Fastest Wetting
Low Spattering

Lead-free solder wire

SN100C (031)



Nihon Superior SN100C(031) cored wire is designed to improve the efficiency of electronics assembly. Its fast melting, reduced flux spattering and excellent spreading offers fast sequential soldering.

Silver-free

Lead-free

SVHC-free ※1

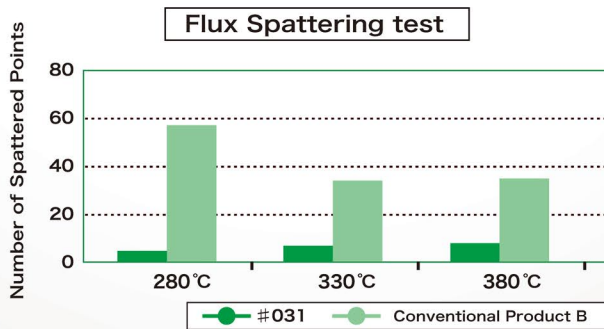
Fast Sequential Soldering

Reduced Flux Spattering

Less cracking of flux residue

※1 Contains no ingredients in the EU REACH Regulation list of Substances of Very High Concerns (SVHC)

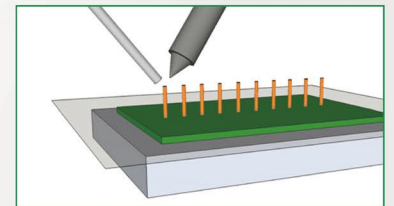
Low Flux Spattering



Flux Spatter Test

Test Method

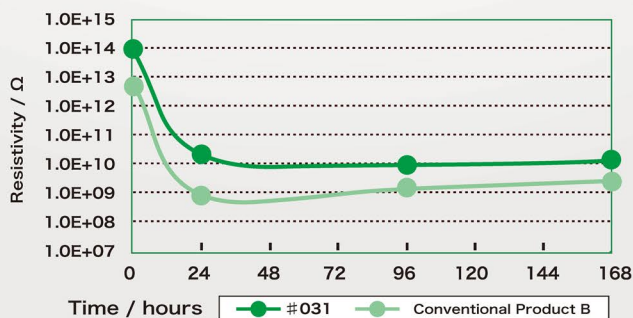
Inset 10 length of 1mm Diameter copper wire into test board. Place paper for collecting spattered flux droplets over the wire. Solder each wire with a tip temperature of 280°C to 380°C. Count the number of spattered flux droplets around each soldered wire.



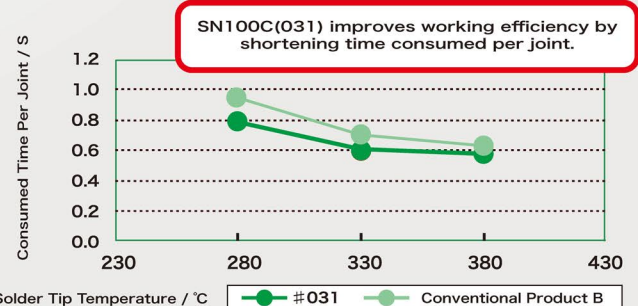
Test Conditions

Alloy : SN100C
Diameter : ϕ 0.8mm
Temperatures : 280°C, 330°C, 380°C
※The test was performed 3times.

Insulation Resistance Test



Sequential Soldering Test



Lead-free solder wire

SN100C(031)

Properties

		Sn-0.7Cu-0.05Ni+Ge	Test Method
Alloy composition		Sn-0.7Cu-0.05Ni+Ge	—
Melting point		227	—
Flux Classification		ROL1	ANSI/IPC J-STD-004
Flux Content		3.0	JIS Z 3197 8.1.2
Halide (Potentiometric titration method)		0.14	JIS Z 3197 8.1.4.2.1
Copper plate corrosion		Pass	JIS Z 3197 8.4.1
Copper mirror		Pass	JIS Z 3197 8.4.2
Dryness of flux residue		Pass	JIS Z 3197 8.5.1
Insulation resistance	168hr	$1.2 \times 10^{10} \Omega$	JIS Z 3197 8.5.3
Electromigration	1000hr	Pass	JIS Z 3197 8.5.4

Available sizes

φ (mm) 0.1、0.15、0.2、0.25、0.3、
0.4、0.5、0.6、0.8、1.0、1.2、1.6、2.0

Minimum Order Quantity

5kg (10 x 500g spools)

Product Code

SN100C 031
Alloy Flux type

Note) All content herein is as of July 2011.

All the statements, technical information and recommendations contained herein are based on the data or other information available to us that we believe to be reliable but the accuracy and completeness of which we can not guarantee. Descriptions including specification are subject to change without prior notification. Product MSDS must be reviewed for proper use, handling, and disposal before use. Completely halogen-free means that it does not contain F, Cl, Br, or I. SN100C® is patented in 23 countries and regions including Japan (JPN PAT. No. 3152945) and United States (US PAT No. 6180055).

SN100C  **NSe** Registered Trade Mark of Nihon Superior Co., Ltd. in U. S. A.

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Go to our website for more details

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