

## TECHNICAL DATA SHEET

\* **Product name** NS e – Solder Lead – Free Flux Cored Solder Wire  
 \* **Item No.** **SUPERIOR SN100C (010)**  
 \* **Manufacturer** **NIHON SUPERIOR CO. LTD.**  
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### \* Alloy compositions

Alloy Compositions (%)											
Sn	Cu	Ni	Pb	Sb	Bi	Ag	Zn	Fe	Al	As	Cd
R	0.6 ±0.1	*	0.05 max	0.05 max	0.03 max	0.05 max	0.002 max	0.02 max	0.002 max	0.03 max	0.002 max

\* **Patent** : Japan (No.3152945), USA (PAT 6,180,055), Taiwan (123376), Singapore (69432)  
 This product is Patent Pending in 29 countries.

### \* Alloy Properties

Melting Temperature	Solidus Temperature / Liquidus Temperature	approx. 227°C
Specific gravity	approx. 7.4	20°C

### \* Properties of Flux

ITEM	STANDARD	TEST METHOD
Type	RMA	
Content	3.0 ± 0.5%	JIS-Z-3197-1999 8.1.2
Dryness Test	Passed	JIS-Z-3197-1999 8.5.1
Chlorine Content	0.05% max	JIS-Z-3197-1999 8.1.4.2.1
Corrosion test on copper plate	No corrosion occurred	JIS-Z-3197-1999 8.4.1
Corrosion test on copper mirror	Passed	J-STD-004
Silver Chromate Paper	Passed	J-STD-004
Water solution extract resistance	2,000 m min	JIS-Z-3197-1999 8.1.1
Surface insulation resistance	Initial value : 1.0 x 10 <sup>14</sup> min After humidified : 1.0 x 10 <sup>12</sup> min	JIS-Z-3197-1999 8.5.3 2 comb pattern
Voltage – Applied resistance	Initial Value : 1.0 x 10 <sup>14</sup> min After humidified : 1.0 x 10 <sup>12</sup> min	JIS-Z-3197-1999 8.5.4 2 comb pattern
Spreading test **	75% min	JIS-Z-3197-1999 8.3.1.1
Chlorine · Bromine	Halogen is bromine base	
Organic acid	None	

\*\* It depends on each diameter of solder wire and flux content.

This value is obtained from test results under conditions of temperature at 40°C, Humidity at 95%, voltage – applied at DC 100V after 1000 hrs.

- \* **Size (Diameter)**      ø 0.3mm ~ ø 2.0mm      Net mass 0.5kg / Plastic Reel  
Tolerance of Net Mass within –0 / + 10%
- \* **Packaging**            Each plastic reel (0.5Kg at net mass) has shrink-wrap packing.  
Net 5Kg (10 Reels) as 1 unit in a cardboard box.
- \* **Storage Condition & Shelf Life**    Keep away from humidity and high temperature. Store within doors at normal temperature.  
Shelf life is not more than one (1) year after the manufacturing date.
- \* **Cautions**                Before use, read and understand warning of Material Safety Data Sheet. The relevant regulations must be respected when handling and disposal

All statements, technical information and recommendations contained herein are based on test data or other information available to us, which we believe to be reliable, but accuracy or completeness there of is not guaranteed. Descriptions including specifications are subject to change without prior notification for the purpose of improvement in quality, etc.