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### Technical Data Sheet

**Product Name:** NSe-Solder Lead Free Flux Cored Solder Wire

**Item No:** Superior SN100C (010)

#### Alloy Compositions:

Alloy Composition (%)											
Sn	Cu	Ni	Pb	Sb	Bi	Ag	Zn	Fe	Al	As	Cd
Bal	0.6 ± 0.1	*	0.05 max.	0.05 max.	0.03 max.	0.05 max.	0.002 max.	0.10 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-Z03197-1999 8.1.2
Dryness Test	Passed	JIS-Z-3197-1999 8.5.1
Chlorine Test	0.05% max.	JIS-Z-3197-1999 8.1.4.2.1
Corrosion Test on Copper Mirror	Passed	J-STD-004
Silver Chromate Paper	Passed	J-STD-004
Water Solution Extract Resistance	2,000Ωm min.	JIS-Z-3197-1999-8.1.1
Surface Insulation Resistance	Initial Value: 1.0 x 10 <sup>14</sup> Ω min. After Humidified: 1.0 x 10 <sup>12</sup> Ω min.	JIS-Z-3197-1999 8.5.3 2 comb pattern
Voltage – Applied Resistance	Initial Value: 1.0 x 10 <sup>14</sup> Ω min. After Humidified: 1.0 x 10 <sup>12</sup> Ω 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 result under condition of temperature at 40°C,  
Humidity at 95%, voltage-applied at DC100V after 1000hrs

Size (Diameter): 0.3mm – 2mm      Nett 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 conditions: Keep away from humidity and high temperature. Store in doors at normal temperature

Shelf Life: Shelf life is not more than one (1) year after manufactured date.

Cautions: Before use, read and understand warning of Material Safety Data Sheet. The relevant regulations must be respected for handling and disposal.

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