## SN100CLe+ (SnNi0.15)

 Date
 2021.05.10

 Language
 English

 SDS
 950003



## **SUMMARY**

SN100CLe+ copper-reduced solder with addition of nickel is the replenishment alloy for SN100CL solder to keep the solder bath within the process limits.

ALLOY	SN100CLe+ (SnNi0.15)		
PROCESS			
Leadfree		9	
Leaded		1	
First filling*		1	
Refilling*		9	

\*follow Application Note

INDUSTRY APPLICATION	
Standard electronics	9
Industrial electronics	9
Hi-Rel electronics (automotive)	

PROCESS CAPABILITY		
Wave soldering	1	
Selective soldering	1	
Dip soldering	6	
Wire tinning	6	
Process: Ambient	9	
Process: N2 partial	N/A	
Process: N2	N/A	
Reduces dross	8	
Reduces bridging	8	
Improves PTH filling	N/A	
Shiny joint appearance	9	

Legend		
Especially made for this purpose	9 - 10	
Generally qualified for this purpose		
Generally usable, but not the best choice		
Generally not usable for this purpose		
Wrong choice	1 - 2	

Check material compatibility with every process change.

Read AN before use.

Read MSDS before use.

PROPERTIES			
Manufacturing standard	WBZ.:	WBZ.: Triple X	
Alloy Code	SN10	SN100CLe+	
Alloy composition	SnN	SnNi0.15	
ANSI/J-STD-006C: 2013	not co	not compliant	
DIN EN ISO 9453:2021-01		-	
Liquidus	[°C]	227	
Solidus	[°C]	227	
Recommended working range*	[°C]	260 - 320	

\*follow Application Note

COMPOSITION			
Tin	[Sn]	Remainder	
Copper	[Cu]	max. 0.2	
Nickel	[Ni]	0.13 - 0.17	
Germanium	[Ge]	0.005 - 0.007	
Silver	[Ag]	max. 0.05	
Aluminium	[AI]	max. 0.001	
Arsenic	[As]	max. 0.03	
Gold	[Au]	max. 0.03	
Bismuth	[Bi]	max. 0.03	
Cadmium	[Cd]	max. 0.002	
Iron	[Fe]	max. 0.02	
Indium	[ln]	max. 0.03	
Lead	[Pb]	max. 0.05	
Antimony	[Sb]	max. 0.05	
Zinc	[Zn]	max. 0.001	

SHAPE AND DIMENSION*			
Ingot	1 kg	LxWxH [mm]	325x28x15
Ingot with loop	3.7 kg	LxWxH [mm]	540x50/40x20
	4 kg	LxWxH [mm]	515x50/48x22
Bar	Rectangle	[mm]	400x10x8
	Triangular	[mm]	400x10x10
Pellet		[mm]	12x25
Solid wire	0	[mm]	1.0 - 6.0
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\*other dimensions on request

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