Product data sheet

BALVER ZINN®

SCAN-Ge 071 (SnCu0.7Ag1.0NiGe)

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Language English

SDS 950010

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SUMMARY

Alloy SCAN-Ge071 is an inexpensive, micro-alloyed standard alloy when high reliability demands are required.

ALLOY	SCAN-Ge 071 (SnCu0.7Ag1.0NiGe)
PROCESS	
Leadfree	9
Leaded	1
First filling*	9
Refilling*	8

*follow Application Note

INDUSTRY APPLICATION	
Standard electronics	9
Industrial electronics	9
Hi-Rel electronics (automotive)	8

PROCESS CAPABILITY	
Wave soldering	9
Selective soldering	8
Dip soldering	8
Wire tinning	6
Process: Ambient	9
Process: N2 partial	9
Process: N2 vull tunnel	8
Reduces dross	9
Reduces bridging	9
Improves PTH filling	9
Shiny joint appearance	7

Legend	
Especially made for this purpose	9 - 10
Generally qualified for this purpose	7 - 8
Generally usable, but not the best choice	5 - 6
Generally not usable for this purpose	3 - 4
Wrong choice	1 - 2

Check material compatibility with every process change.

Read AN before use.

Read MSDS before use.

PROPERTIES		
Manufacturing standard	WBZ.: Triple X	
Alloy Code	SCAN-Ge071	
Alloy composition	SnCu0.7Ag1.0NiGe	
ANSI/J-STD-006C: 2013	compliant	
DIN EN ISO 9453:2021-01	-	
Liquidus	[°C]	225
Solidus	[°C]	217
Recommended working range*	[°C]	260 - 320

*follow Application Note

COMPOSITION		
Tin	[Sn]	Remainder
Silver	[Ag]	0.9 - 1.1
Copper	[Cu]	0.6 - 0.7
Nickel	[Ni]	0.04 - 0.06
Germanium	[Ge]	0.009 - 0.011
Aluminium	[Al]	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	[In]	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]	-
	Triangular	[mm]	400x10x10
Pellet		[mm]	12x25
Solid wire	⌀	[mm]	1.0 - 6.0

*other dimensions on request