

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

Rev: 21.5

Date	2021.05.10
Language	English
SDS	950010



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	8
Reduces dross	9
Reduces bridging	9
Improves PTH filling	9
Shiny joint appearance	7

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

Check material compatibility with every process change.

Read AN before use.

Read MSDS before use.

Disclaimer:

The information given in this publication has been worked up to the best of the knowledge of Cobar as well as taking into consideration the applicable laws and regulations. We cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

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] 217
Solidus	[°C] 225
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
	3.7 kg	LxWxH [mm]	540x50/40x20
Ingot with loop	4 kg	LxWxH [mm]	515x50/48x22
	Bar	Rectangle	[mm]
Triangular		[mm]	400x10x10
Pellet		[mm]	12x25
Solid wire	ø	[mm]	1.0 - 6.0

*other dimensions on request