

Sn100Ni+®

Sn99Ag+8 • Sn98Ag+8 • Sn96Ag+8 • Sn95Ag+8





Electronic solder

ISO-Tin® NiGe-Electronic solder **ISO-Tin®** NiGe-HAL-solder

From pure metals of first smelting

For use in wave, selective, and dip soldering baths

From pure metals of first smelting

HAL-Lote

for hot-air tinning in printed circuit board manufacturing

Format	Dimension	Format	Dimension	
Approx. 0.400 kg rods	330 x 20 x 10 mm	Approx. 0.400 kg rods	330 x 20 x 10 mm	
Approx. 1.000 kg rods	330 x 20 x 20 mm	Approx. 1.000 kg rods	330 x 20 x 20 mm	
Approx. 3.500 kg blocks with hanging loop	545 x 47 x 20 mm	Approx. 3.500 kg blocks with hanging loop	545 x 47 x 20 mm	
Also available as solid wire on spools for automatic feeding and as cones/pellets for initial filling.		Also available as solid wire on spools for automatic feeding and as cones/pellets for initial filling.		

The alloys from the Sn100Ni+ family are known for their good soldering properties, shiny solder joints, and reduction of copper alloying. NiGe solder alloys have proven their reliability in numerous tests.

	Product	Alloy	EN ISO 9453	Melting range	Rec. soldering wave temperature	Application	
5	Sn100Ni+ ^{®**}	Sn99.3Cu0.7AgNiGe	Sn99.25Cu0.7Ni0.05	227 °C eutectic	≥ 265 °C	Wave soldering	
틒	Sn100Ni+®-Refill**	Sn99.9NiGe	-	Refill for Sn100Ni+®			
soldering	Sn99Ag+ ^{®**}	Sn99Ag0.3Cu0.7NiGe	-	217 - 227 °C	≥ 260 °C	Selective soldering Immersion	
	Sn98Ag+®**	Sn98Ag1.2Cu0.7NiGe	-	217 - 222 °C	≥ 255 °C		
Wave	Sn96Ag+ ^{®**} Sn96.5Ag3.0Cu0.5NiGe -		! -	217 - 219 °C	≥ 255 °C	soldering	
	Sn95Ag+ ^{®**}	Sn95.5Ag3.8Cu0.7NiGe -		217 °C eutectic	≥ 255 °C		
	HAL-Sn100Ni+®**	Sn99.3Cu0.7AgNiGe	Sn99,25Cu0,7Ni0,05	227 °C eutectic	≥ 277 °C		
< 4 €	HAL-Sn100Ni+®-Refill	Sn99.9NiGe -		Refill for HAL-Sn100Ni+® (acc. to Cu-content)		hat airtinaina	
	HAL-Sn99Ag+®**	Sn99Ag0.3Cu0.7NiGe	Sn99Cu0.7Ag0.3(NiGe)	227 °C eutectic	258 - 268 °C	hot-air tinning	
	HAL-Sn99Ag+®-Refill	Sn99.7Ag0.3NiGe	-	Refill for HAL-Sn99Ag+®	(acc. to Cu-content)		

^{**} Fuji-Patent: DE-Patent-No. 19816671C2; US-Patent-No. 6.179.935B1; Japan-Patent-No. 3296289

All electronic solders are of course also available as REFILL solder without copper. Our lead-free solders comply with the RoHS directive and therefore also with the ElektroG. We will be happy to provide you with a corresponding declaration of conformity. **Please note the application-related advantages of our NiGe-doped electronic solders. Request our detailed product information.**





SN100⁻⁴⁰³





Electronic solder

From pure metals of first smelting

For use in wave, selective, and dip soldering baths

Format	Dimension			
approx. 0.250 kg triangular rods	10 x 10 x 10 x 400 mm			
approx. 1.000 kg rods	330 x 20 x 20 mm			
approx. 3.500 kg Blocks with hanging loop	545 x 47 x 20 mm			
Also available as solid wire on spools for automatic feeding and as cones/pellets for initial filling.				

HAL-Solder

ISO-Tin® SN100-403CL

From pure metals of first smelting

For hot-air tinning in printed circuit board manufacturing

Format	Dimension		
approx. 0.250 kg triangular rods approx. 1.000 kg rods	10 x 10 x 10 x 400 mm 330 x 20 x 20 mm		
approx. 3.500 kg Blocks with hanging loop	545 x 47 x 20 mm		
Also available as solid wire on spools for automatic feeding and as cones/pellets for initial filling.			

The alloys from the SN100-403C family are known for their good soldering properties, shiny solder joints, and reduction of copper alloying. The SN100-⁴⁰³C solder has proven its reliability in numerous tests.

	Product	Alloy	EN ISO 9453	Alloy No.	Melting range	Rec. soldering wave temperature	Application
wave soldering	SN100 ⁻⁴⁰³ C*	SnCu07NiGe0.0055	Sn99.25Cu0.7Ni0.05	403	227 °C eutectic	≥ 265 °C	Wave soldering Selective soldering Immersion soldering
	SN100 ⁻⁴⁰³ Ce *	SnNiGe0.0055	-		Refill for SN100 ⁻⁴⁰³ C	≥ 265 °C	
	SN100 ⁻⁴⁰³ CS*	SnCu07NiGe0.01	Sn99.25Cu0.7Ni0.05	403	227 °C eutectic	≥ 265 °C	
9	SN100 ⁻⁴⁰³ CeS*	SnNiGe0.01	-		Refill for SN100 ⁻⁴⁰³ CS	≥ 265 °C	
Ve V	SN100 ⁻⁴⁰³ CS+*	SnCu07NiGe0.025	Sn99.25Cu0.7Ni0.05	403	227 °C eutectic	≥ 265 °C	
	SN100 ⁻⁴⁰³ CeS+*	SnNiGe0.025	-		Refill for SN100 ⁻⁴⁰³ CS+	≥ 265 °C	
	SN100 ⁻⁴⁰³ C3 *	SnCu3NiGe0.0055	-		227 - 310 °C	340 - 420 ° C	Immersion
	SN100 ⁻⁴⁰³ C4 *	SnCu4NiGe0.0055	-		227 - 340 °C	380 - 540 ° C	soldering
HAL-tinning	SN100 ⁻⁴⁰³ CL*	SnCu07NiGe0.0055	Sn99.25Cu0.7Ni0.05	403	227 °C eutectic	≥ 277 °C	
	SN100 ⁻⁴⁰³ CLe*	SnNiGe0.0055	-		Refill for SN100 ⁻⁴⁰³ CL	≥ 277 °C	
	SN100 ⁻⁴⁰³ CLe(+)*	SnNi0.15Ge0.0055	-		Refill for SN100 ⁻⁴⁰³ CL	≥ 277 °C	hot-air tinning
	SN100 ⁻⁴⁰³ CLS*	SnCu07NiGe0.01	Sn99.25Cu0.7Ni0.05	403	227 °C eutectic	≥ 277 °C	
	SN100 ⁻⁴⁰³ CLeS*	SnNiGe0.01	-		Refill for SN100 ⁻⁴⁰³ CLS	≥ 277 °C	
	SN100 ⁻⁴⁰³ CLeS(+)*	SnNi0.15Ge0.01	-		Refill for SN100 ⁻⁴⁰³ CLS	≥ 277 °C	

^{*} Manufactured according to NIHON SUPERIOR patent: DE patent no. 69918758; European patent no. 0985486

Our lead-free solders comply with the RoHS directive and therefore also with the ElektroG. We will be happy to provide you with a corresponding declaration of conformity. Please note the application-related advantages of our NiGe-doped electronic solders. Request our detailed product information.

