

5N Plus Micro Powders has developed a proprietary atomizing technology particularly effective in producing ultrafine solder powders ranging from 1 to 25 µm. The result of this technology development is products with:

- Low oxygen content
- High purity
- Spherical particles
- Size from Type 5 to Type 8
- Ideal for Screen Printing, Dispensing and Jet Printing

## 5N Plus Technology

Conventional Technologies

TYPE 3	TYPE 4	TYPE 5	TYPE 6	TYPE 7	TYPE 8
[25 – 45 µm]	[20 – 38 µm]	[15 – 25 µm]	[5 – 15 µm]	[2 – 11 µm]	[1 – 8 µm]

\*Conventional – Rotating disk or ultrasonic methods of production



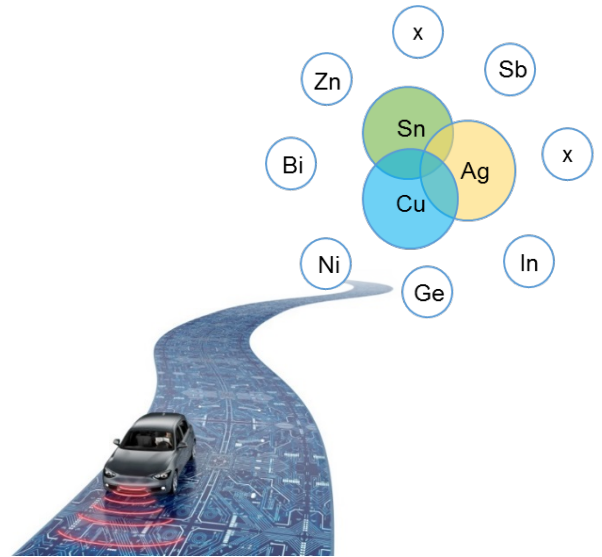
## Solder Powders

Composition, wt.%	Solidifying range, °C
Sn98.5-Ag1.0-Cu0.5	217-224
Sn96.5-Ag3.0-Cu0.5	217-220
Sn95.5-Ag4.0-Cu0.5	217-220
Sn95.5-Ag3.8-Cu0.7	217*
Sn96.5-Ag3.5	221*
Sn95-Ag5	221-245
Sn99.3-Cu0.7	227*
Sn	232
Sn95-Sb5	237-240
Sn90-Sb10	243-257

## Low Melting Point Alloys

Composition, wt.%	Solidifying range, °C
Bi32.5-Sn16.5-In51	61*
Bi33.7-In66.3	72*
Bi57-Sn17-In26	78*
Bi67-In33	109*
Sn50-In50	118-120
Bi58-Sn42	138*
Bi57-Sn42-Ag1	139*
In97-Ag3	145*
Bi50-Sn50	138-154
Bi40-Sn60	138-170
In	157
Sn91-Zn9	199*

\* Eutectic or near-eutectic alloys



- Our flexible process is ideally suited for customized alloys and particle size distributions.
- We provide a wide range of powders with melting temperatures ranging from 61°C to 1200°C

## High Temperature Powders

Composition, wt.%	Solidifying range, °C
Bi	271
Sn89Cu3.5Sb7.5	241-354
Ag72-Cu28	779*
Ag/Ag alloys	< 982
Cu	1085

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