

High Purity Metals



9N-Cu

Features of High Purity Metals

- 1) Improvement in conductivity
- 2) Improvement in corrosion resistance
- 3) Improvement in processing characteristics
(brittleness, ductility)
- 4) Improvement in controllability by additional elements
(magnetic properties, oxidation resistance,
mechanical property)
- 5) Suppression of alpha emissions
- 6) Larger crystal grains
- 7) lowering the crystallization temperature

Product list

1A	2A	3A	4A	5A	6A	7A	8A					1B	2B	3B	4B	5B	6B	7B	
H																		He	
Li	Be											B	C	N	O	F	Ne		
Na	Mg											Al	Si	P	S	Cl	Ar		
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr		
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe		
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn		
Fr	Ra	Ac																	

La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

	Current Product (24 Elements)
	Past Products (14 elements)
	Under Development or Pilot Production

- 24 elements and more are available. Please ask us for details.
- The Purity is from 4N to 9N.
- 2x2x2mm cubes for the standard shape.
- Custom-made shapes are also available (Please ask us for details).
- Certificate of Analysis based of GDMS attached to every shipment.

Examples of impurities (Cu)

6N-Cu, 9N-Cu

Inclusions	(ppm-wt)	
	6N	9N
Fe	0.002~0.03	<0.001
Ni	0.001~0.01	<0.001
Ag	0.1~0.3	<0.005
Al	0.004~0.06	<0.001
Se	<0.01~0.2	<0.005
Si	0.05	<0.005
Sb	<0.02	<0.005
As	<0.005	<0.005
Pb	<0.001	<0.001
S	0.01	<0.005

Characteristics of Cu

- Higher reliability: Our Cu targets is made 6N-Cu.
- The highest purity for Cu is 9N (99.9999999%)