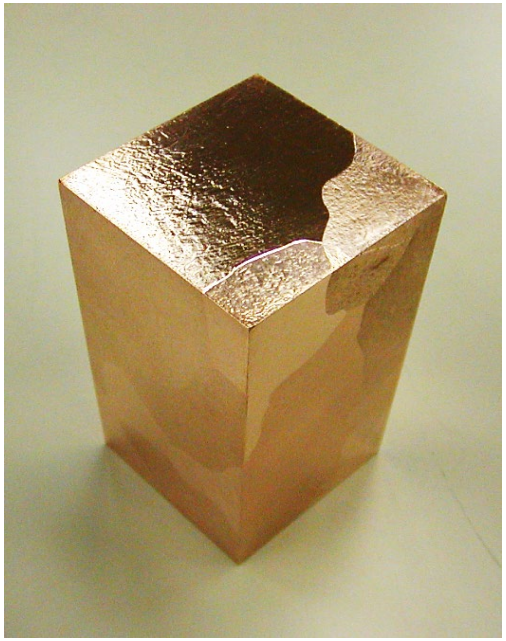
High Purity Metals



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

(ppm-wt)

Inclusions	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 are made 6N-Cu.

•The highest purity for Cu is 9N (99.9999999%)