

Be



VITAL
Grade: 4N/4.5N

Properties: Beryllium is a grayish-white alkaline earth metal that is hard and ductile. Beryllium and its compounds are highly toxic, soluble in acids and alkalis, and are amphoteric metals. Beryllium is chemically active, can form a dense oxidized protective layer on the surface, even at high temperatures, can be stable in the air.

Uses: Synthesizing high purity alloys; source material for molecular beam epitaxy.

· Identifier

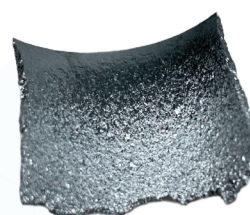
Chemical Formula	Be
CAS No.	7440-41-7
EINECS No.	231-150-7

· Physical and chemical properties

Molecular weight	9.01 g/mol	Flash point	/	Reactivity	Stable. Forming a protective oxide film in the air
Appearance	Off-white solid	Melting point	1278℃	Solubility	Insoluble in cold water, soluble in dilute hydrochloric acid
Density	1.85 g/cm ³	Boiling point	2970℃	Storage	Shady and cool, well-ventilated

· Metal impurities

Impurities	4N/ppmw	4.5N/ppmw	Impurities	4N/ppmw	4.5N/ppmw
Li	≤1	≤1	Cr	≤5	≤5
B	≤1	≤1	Mn	≤20	≤10
Na	≤1	≤1	Fe	≤10	≤5
Mg	≤1	≤1	Ni	≤5	≤5
Al	≤10	≤5	Cu	≤5	≤5
Si	≤20	≤10	Zn	≤5	≤5
P	≤10	≤5	Ge	≤1	≤1
S	≤10	≤5	Se	≤1	≤1
K	≤5	≤5	Ag	≤5	≤5
Ca	≤5	≤5	Sb	≤5	≤5
Sc	≤1	≤1	Pb	≤1	≤1
Ti	≤5	≤5	Bi	≤1	≤1
/	/	/	Combined total impurities	≤100	≤50



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