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Properties: Aluminum(Al) is a silver-white light metal with good ductility. Aluminum is an amphoteric metal and very soluble in strong bases, also soluble in dilute acids, insoluble in water. The common specifications and shapes of ultra-high purity aluminum are: bar, sheet, block and wire.

Uses: Manufacture of metallization layers (films) for semiconductor devices.

· Identifier

Chemical Formula	C ₈ H ₂₀ O ₄ Si
CAS No.	7429-90-5
EINECS No.	231-072-3

· Physical and chemical properties

Molecular weight	26.98 g/mol	Flash point	400℃	Reactivity	Easily oxidized to form a dense oxide film
Appearance	silvery white metal	Melting point	660℃	Solubility	react with acids and bases
Density	2.70 g/cm ³	Boiling point	2327℃	Storage	Shady and cool, well-ventilated

· Metal impurities

Project	Unit	Specification	Project	Unit	Specification
Be	ppbw	≤10	Zn	ppbw	≤50
B	ppbw	≤5	Ge	ppbw	≤20
Na	ppbw	≤5	As	ppbw	≤50
Mg	ppbw	≤50	Se	ppbw	≤20
Si	ppbw	≤100	Mo	ppbw	≤10
P	ppbw	≤10	Ag	ppbw	≤20
S	ppbw	≤10	Cd	ppbw	≤20
K	ppbw	≤20	Sn	ppbw	≤20
Ca	ppbw	≤20	Sb	ppbw	≤20
Ti	ppbw	≤100	Te	ppbw	≤20
V	ppbw	≤100	Au	ppbw	≤50
Cr	ppbw	≤100	Hg	ppbw	≤20
Mn	ppbw	≤50	Tl	ppbw	≤10
Fe	ppbw	≤50	Pb	ppbw	≤10
Co	ppbw	≤10	Bi	ppbw	≤10
Cu	ppbw	≤50	/	/	/

VITAL MICRO-ELECTRONICS TECHNOLOGY CO., LIMITED

High Purity Materials Production Plant: No.16, Chuangxing Third Road, Qingyuan, Guangdong China 511517

Tel: 0763-3993123 Fax: (86) 020 - 83511907 Website: www.vitalchem.com

E-mail: semi_sales@vitalchem.com

