



Rierden Chemical & Trading Company

GLOBAL RESOURCES • LOCAL SOLUTIONS

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Potassium Carbonate

CAS Number 584-08-7

Specification

Physical Property	Value
Appearance	White Granule
Chemical Formula (Formula Weight)	K_2CO_3 (138.2 g/mol)
Specific Gravity, kg/L, 19 °C	2.428
Bulk Density, g/cm ³	1.25 – 1.35
Specific Heat, cal/g-°C, 23 °C – 99 °C	0.216
Melting Point, °C	891

Test	Specification
Potassium carbonate (K_2CO_3), %	99.5 min
Potassium Chloride (KCl), %	0.01 max
Iron (Fe), ppm	3 max
Potassium Hydroxide (KOH), %	0.2 max
Sodium Carbonate (Na_2CO_3), %	1.2 max
Potassium Sulfate (K_2SO_4), %	0.01 max
Ig-Loss, %	0.6 max
Arsenic (As), ppm	0.1 max
Heavy Metals at Lead (Pb), ppm	5 max
Insoluble in Water, %	0.0005 max
Potassium Chlorate ($KClO_3$), %	0.03 max
Nickel (Ni), ppm	2 max

ASTM Mesh	Guaranteed Range
#16 over, %	0 max
#20 over, %	5 max
#100 under, %	2 max

Applications: TV tube, Special Glass, Potassium Silicate, Potassium Cyanide, Fertilizer, Detergent, Photo Chemicals, Gas Purification, etc.

Packing: 25 kg P.P. Woven Bag, 25 kg Kraft Paper Bag, 1,000 kg P.P. Woven Sack

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