

# WENTONG POTASSIUM SALT GROUP CO., LTD.

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## Technical Data Sheet

### Technical Data Sheet of Potassium carbonate

Potassium carbonate ( $K_2CO_3$ ) is a white salt, soluble in water (insoluble in ethanol), which forms a strongly alkaline solution. It can be made as the product of potassium hydroxide's absorbent reaction with carbon dioxide. It is deliquescent, often appearing a damp or wet solid.

Name of Goods: **POTASSIUM CARBONATE**

INSPECT ITEM	ANALYSIS
PURITY	99.5%
CHLORIDE (AS KCL)	0.007%
SULPHATE(AS K <sub>2</sub> SO <sub>4</sub> )	0.009%
IRON	0.0002%
INSOLUBIE MATTER IN WATER	0.02%
BURNT LOSS	0.45%

Other names:	Carbonate of potash, Dipotassium carbonate, Sub-carbonate of potash, Pearl ash, Potash, Salt of tartar, Salt of wormwood.
Identifiers	CAS Number 584-08-7
Chemical formula	$K_2CO_3$
Molar mass	138.205 g/mol
Appearance	white, hygroscopic solid
Density	2.43 g/cm <sup>3</sup>
Melting point	891 °C (1,636 °F; 1,164 K)
Boiling point	decomposes
Solubility in water	112 g/100 mL (20 °C) 156 g/100 mL (100 °C)
Solubility	insoluble in alcohol, acetone

standard	GB/T 1587-2000/ HG2452-93
Packing	Plastic woven bag or kraft paper bag inner with plastic bag, in 25/50 / 1000KG net .
Handling and Storage	Store in dry and ventilated house away from moisture. Don't store in goods yards or expose to the air. Protect the material from rain when loading and unloading. Be sure to keep the package dry and free from contaminant. Avoid handling and transporting together with acid substances. In the event of a fire, use water as extinguishing agent.
Applications	Potassium Carbonate is used as raw materials in manufacturing electro tube, TV kinescope, computer display. It is applied in optical glass improving clarity, strength and refractive index. It is also applied in electrode avoiding electric arc breaking-off during welding. It is used to produce food additives like potassium sorbate, monopotassium phosphate, etc. Potassium Carbonate is foliar spray fertilizer and a constituent of compound fertilizer. In dyeing industry, it is used to produce vat dyestuff and discharge of ice dyeing. It is absorbent removing hydrogen sulfide and carbon dioxide; dry powder extinguisher mixed with soda; auxiliary raw material for producing alcohol and acetone; and anti-aging agent in rubber production. Its solution is used in boiling and scouring of cotton cloth and wool's degreasing. In addition, it is also used in manufacture of printing ink, photograph-drug, polyester, explosives, electroplating, tanning, ceramic, building materials, crystals and medicine.

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A handwritten signature in black ink is written over a horizontal line. Below the signature, there is a circular stamp or mark, possibly a company seal or a specific identifier, though the details are not clearly legible.