

Sodium Gluconate – Technical/Construction Grade

Concrete admixture, chelating agent and retarder for construction and industrial applications

GAC-SG-TECH

Concrete Admixture

Chelating Agent

Retarder

■ PRODUCT DESCRIPTION

Sodium Gluconate is the sodium salt of gluconic acid, produced by fermentation of glucose. It is a white to yellow, granular to fine crystalline powder, very soluble in water. Sodium Gluconate is non-corrosive, non-toxic and resistant to oxidation and reduction, even at high temperatures, and is readily biodegradable (98% after 2 days). Technical/Construction Grade is used as a high-performance concrete admixture and industrial chelating agent.

■ TYPICAL PHYSICAL & CHEMICAL PROPERTIES

PARAMETER	TYPICAL VALUE
Appearance	White or yellow crystalline powder
Purity	≥ 98%
Reducing Substances	≤ 0.5%
Sulfate	≤ 0.05%
Chloride	≤ 0.07%
Heavy Metal	≤ 0.002%
Lead	≤ 0.0002%
Arsenic (As)	≤ 0.0002%
pH	6.5 – 7.8
Loss on Drying	≤ 0.5%

Values represent typical production results and are provided for reference only; they do not constitute a binding product specification. Please refer to the Certificate of Analysis (COA) accompanying each shipment for batch-specific results.

■ APPLICATIONS

- Concrete admixture – improves breaking strength, tensile strength, elastic modulus and adhesiveness to steel reinforcement
- Improves concrete durability – anti-seepage, anti-freezing and anti-carbonization performance
- Retarder – delays cement initial hydration, extending concrete setting and workability time
- High workability with no segregation and no water bleeding
- Non-toxic, non-flammable, non-corrosive to steel reinforcement
- Used in electroplating, film manufacturing and other industrial chelation applications

■ PACKAGING, HANDLING & STORAGE

Packaging	25±0.2 kg woven bags with plastic film liner; customizable per customer requirement
Storage	Store in a dry, ventilated warehouse; moisture-caked product may be crushed or dissolved in water without affecting performance