

SPECIFICATION

Product Name: Sodium Nitrite Technical Grade
Chemical Formula: NaNO_2
CAS Number: 7632-00-0
Molecular Weight: 69.00 g/mol
Appearance: White or slightly yellowish crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Purity	%	99%	Min. 99.00%
Loss on drying	%	0.15%	Max. 0.50%
Alkalinity as Na_2CO_3	%	0.14%	Max. 0.20%
Chloride	%	0.006%	Max. 0.05%
Sodium Nitrite	%	0.68%	Max. 1.00%

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Insoluble in ether.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Keep the container tightly closed in the original, properly labeled container to protect from moisture, contamination, and direct sunlight. Store away from strong acids, reducing agents, combustible materials, ammonium salts, and organic substances, as sodium nitrite is a strong oxidizing agent and may react with incompatible materials.

Applications

- Use: Widely used in industrial and laboratory applications. It is commonly used as a corrosion inhibitor in closed-loop cooling systems, an intermediate in chemical synthesis, and in the manufacture of dyes, pigments, rubber chemicals, and pharmaceuticals (as an industrial

intermediate). It is also used in metal treatment, electroplating, textile processing, and analytical laboratory reagents.

-Dosage: Depends on the specific industrial process, chemical reaction, corrosion inhibition system, or analytical method and should be determined according to the relevant technical specifications and standard operating procedures.

Packaging

- Standard Packing: 50 Kgs woven pp bag with inner liner or as per customer requirement.

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.