



TECHNICAL DATA SHEET

Product Name: Sodium Percarbonate
Synonyms: Solid Hydrogen Peroxide, Sodium Carbonate Peroxide
CAS Number: 15630-89-4
EINECS Number: 239-707-6
EC Code: 239-707-6
Molecular Formula: $2\text{Na}_2\text{CO}_3 \cdot 3\text{H}_2\text{O}_2$
Molecular Weight: 314.02
HS Code: 2836994000
Appearance: White free-flowing granules or powder
Odor: Odorless

1. Typical Specifications

Parameter	Specification
Available Oxygen	$\geq 13.0\%$
Active Content	$\geq 85.0\%$
Bulk Density	900 – 1200 g/L
Moisture	$\leq 1.0\%$
pH Value (1% solution)	10.0 – 11.0
Iron (Fe)	≤ 15 ppm
Appearance	White granules

2. Properties

Sodium Percarbonate is an environmentally friendly oxidizing agent formed by the addition compound of sodium carbonate and hydrogen peroxide. It releases active oxygen when dissolved in water, providing excellent bleaching, cleaning, deodorizing, and disinfecting performance.

Compared with chlorine-based bleaching agents, Sodium Percarbonate is safer and more environmentally friendly because its decomposition products are oxygen, water, and sodium carbonate.

3. Production Method

Sodium Percarbonate is generally produced by crystallization and spray granulation processes using sodium carbonate and hydrogen peroxide under controlled conditions.

For coated Sodium Percarbonate, a protective coating layer is applied to improve storage stability, moisture resistance, and compatibility with detergent formulations.

4. Raw Materials

- Sodium Carbonate
- Hydrogen Peroxide

- Stabilizers
- Coating Agents (for coated grade)
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5. Working Principle

When dissolved in water, Sodium Percarbonate decomposes and releases hydrogen peroxide and active oxygen.

The released oxygen can:

- Remove stains
- Bleach fabrics
- Eliminate odors
- Destroy bacteria and organic contaminants

Its alkaline nature also enhances detergent cleaning performance.

6. Applications

✧ Detergent Industry

Widely used in:

- Laundry powder
- Laundry pods
- Oxygen bleach
- Dishwashing detergents
- Fabric cleaners

✧ Textile Industry

Used for:

- Fabric bleaching
- Textile cleaning
- De-staining processes

✧ Cleaning Products

Applied in:

- Carpet cleaner
- Floor cleaner
- Kitchen cleaner
- Industrial cleaning formulations

✧ Water Treatment

Used as an oxygen-releasing agent and disinfecting additive.

✧ Aquaculture & Agriculture

Applied in:

- Pond oxygenation
- Aquaculture cleaning
- Soil treatment

7. Packaging

Kraft Paper Bag 25 KG

Plastic Woven Bag 25 KG

Jumbo Bag 1000 KG

8. Storage & Shelf Life

Store in a cool, dry, and ventilated area away from heat, moisture, acids, and combustible materials.

Keep package tightly sealed.

Shelf Life:

- Uncoated Grade: 12 months
- Coated Grade: 24 months

9. Safety Information

- Strong oxidizing agent.
- Avoid contact with combustible and reducing materials.
- Avoid moisture and high temperature.
- Use protective gloves and goggles during handling.
- Refer to MSDS for detailed safety information.