

PRODUCT INFORMATION SHEET 产品资料单

Sodium Percarbonate

Description

Sodium percarbonate is a free-flowing powder with a common name of solid hydrogen peroxide, it is an addition compound of sodium carbonate and hydrogen peroxide. Sodium Percarbonate has an active available oxygen content which is equivalent to 27.5% H₂O₂. It breaks down to oxygen, water and sodium carbonate upon decomposition.

Sodium Percarbonate offers many of the same functional benefits as liquid hydrogen peroxide. It dissolves into water rapidly to release oxygen and provides powerful cleaning, bleaching, stain removal and deodorizing capabilities. Besides, sodium carbonate decomposed from sodium percarbonate is able to increase the pH value in washing water to knock down the activities of calcium ion and magnesium ion, thus intenerates water. Another benefit offered by sodium carbonate by raising the pH value is to reduce the negative charges of dirt and fibre resulting in the strengthening repellency between dirt and fibre, which leads to the improvement of bleaching and stain removing effects.

Compared with chlorine bleach, sodium percarbonate based oxygen bleach boasts following advantages in laundry formulations:

- No environmental hazards—it breaks down to oxygen, water and sodium carbonate (soda ash) in your wash water.
- Ideal stain removal capability; It is very effective as a laundry presoak for heavily stained articles.
- It is used to for deodorizing and disinfecting.
- Color safe and fabric safe. It brightens colors
- Does not weaken the strength of fabrics
- Prevents fabric from becoming yellowed or darkened
- Effective in a broad range of water temperatures

Technical Information

- ☞ Chemical Name: Sodium Carbonate Peroxyhydrate
- ☞ Synonyms: Sodium Percarbonate, Sodium Carbonate Peroxide, PCS
- ☞ Molecular Formula: $2\text{Na}_2\text{CO}_3 \cdot 3\text{H}_2\text{O}_2$
- ☞ Molecular Weight: 314.02
- ☞ CAS Number: 15630-89-4

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| Product Properties | Standard Specifications | |
|-----------------------------------------|-----------------------------------------------------------|------------|
| | Uncoated | Coated |
| Active Oxygen, % | Min. 13.5 | Min. 13.0 |
| Bulk Density, g/ml | 0.90-1.15 | 0.90-1.10 |
| pH Value (3% Solution) | Approx. 10.5 | 10-11 |
| Ferric, % | Max. 0.002 | Max. 0.002 |
| Moisture, % | Max. 2.0 | Max. 2.0 |
| Humidity Stability (32°C, 80%RH 48H), % | --- | Min. 55 |
| Solubility (20°C 100g water) | --- | 14.5 |
| Appearance | White granular solid, free flowing | |
| Packing | 25/1000 kg PP-PE bag or 50/2000/4000 lbs bag, on pallets. | |

Applications

Sodium percarbonate has a wide range of applications in various cleaning products and detergent formulations including heavy duty laundry detergents, all fabric bleaches, wood deck bleaches, textile bleaches and carpet cleaners. Other applications have been explored in personal care formulations, denture cleaners, pulp and paper bleaching process, and certain food bleaching applications. The product also has functions as disinfectant for institutional and home applications, oxygen releasing agent in aquaculture, waste water treatment chemical, first-aid oxygen generating agent, etc.

Handling and Storage

Storage

- Oxidizer. Store in a cool, well ventilated area away from all source of ignition and out of direct sunlight. Store in a dry location away from heat. Store at temperatures less than 40 °C .
- Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.
- Protect from moisture. Do not store near combustible materials. Keep containers well sealed, seal only with original vent cap. Ensure pressure relief and adequate ventilation.
- Store separately from organics and reducing materials. Avoid contamination which may lead to decomposition.

Handling

- Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.
- Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area.
- Prevent contact with combustible or organic materials.
- Label containers and keep them tightly closed when not in use.
- Wash thoroughly after handling.

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First-aid Measures

- **Inhalation**-Remove affected person to fresh air. Seek medical attention if effects persist.
- **Eye contact**-Flush eyes with running water for at least 15 minutes with eyelids held open. Seek specialist advice.
- **Skin contact**-Wash affected skin with soap and mild detergent and large amounts of water.
- **Ingestion**-If the person is conscious and not convulsing, give 2-4 cupfuls of water to dilute the chemical and seek medical attention immediately. Do not inducing vomiting.

Shipping Information

- Proper Shipping Name: Oxidizing Solid, n.o.s., (Sodium Carbonate Peroxyhydrate)
- UN Number: UN3378
- Hazard Class: 5.1
- Labels: 5.1 (Oxidizer)
- Packing Group: III

Please read the MSDS for this chemical before using