

Sodium Percarbonate C40

Solid Active Oxygen Agent

Sodium Percarbonate C40 is a solid and stable bleaching agent, which combines the properties of hydrogen peroxide and sodium carbonate and provides an excellent bleaching and oxidizing performance as well as alkalinity. Remarkable features of crystalline Sodium Percarbonate C40 are excellent dissolution rate and low tendency for segregation in formulations.

Sodium Percarbonate C40 is used, for example, as a bleaching and oxidizing component in laundry powders and tablets, automatic dishwashing detergents, bleach boosters and denture cleaning agents.

Due to the high dissolution rate Sodium Percarbonate C40 is well suited for formulations demanding rapid availability of active oxygen.

Outside detergent applications it can be used as a source of alkaline hydrogen peroxide, for example, in fish farming, as an oxidizing agent in the textile industry or as a foaming agent (source of gaseous oxygen).

For more detailed information, please visit our home page at www.evonik-treibacher.com or contact our Applied Technology Department.

Standard specification

| Parameter | Unit | specification limits | typical production data |
|----------------------------------|------------|----------------------|-------------------------|
| Active oxygen | % | ≥ 13.0 | 13.3 |
| Bulk density | g/l | 900 - 1200 | 1050 |
| Average particle size | µm | - | 700 |
| Particle size | | | |
| >1400 µm | % | ≤ 10 | ≤ 1 |
| < 150 µm | | ≤ 2 | ≤ 1 |
| TAM value (48h at 40°C) | µW/g | ≤ 10 | 5 |
| Dissolution rate (2.5 g/l; 20°C) | 90% / Sec. | - | ≤ 40 |
| Moisture (IR; 60°C;) | % | ≤ 0.5 | 0.15 |

Physical and chemical properties

| | |
|-----------------------|---|
| Appearance | White, odourless, free-flowing salt |
| Characterization | Addition compound of soda ash (Na ₂ CO ₃) and hydrogen peroxide (H ₂ O ₂) |
| Formula | Na ₂ CO ₃ *1.5 H ₂ O ₂ |
| Molecular mass, g/mol | 157.03 |
| pH 10g/l; 25°C | 10.5 |
| Water solubility, g/l | 140 |

Production plant

Althofen Austria

Sodium Percarbonate C40

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Identification

Chemical Name Sodium Carbonate Peroxyhydrate
EC Name Disodium Carbonate, compound with hydrogen peroxide (2:3)

Classification

CAS No.: 15630-89-4
EINECS-No.: 239-707-6
REACH-No.: 01-2119457268-30-0005
Registered: TSCA; DSL; AICS; MITI; PICCS; China; TCCL; Switzerland
HS No. 2836.99

Labeling (in accordance to EU-CLP Regulation (EC) No. 1272/2008)

| | | |
|------------------------------------|--------|------|
| Oxidizing solids | Cat. 3 | H272 |
| Acute toxicity | Cat. 4 | H302 |
| Serious eye damage/ eye irritation | Cat. 1 | H318 |

Packaging

Bulk, big bags, PE-lined 25kg paper bags

Storage

Sodium Percarbonate C40 has to be stored in original ventilated paper bags or big bags or dedicated silos, vented and protected from direct sun in cool and dry areas. It is important to keep Sodium Percarbonate C40 protected from all types of contamination and away from combustible/oxidizable materials.

Safe handling

While working with Sodium Percarbonate C40, always wear safety goggles and gloves. Use clean, dry silos and equipment of compatible materials. Do not return unused product to original container and do not use spilled (contaminated) material again. In case of dust, wear eye and respiratory protection. Avoid all contact with combustible material, e.g. organic material or oxidizable products.

Hazards

Sodium Percarbonate C40 is classified as an oxidizer. Improper handling may result in rapid decomposition. Decomposition of Sodium Percarbonate C40 can liberate oxygen and steam which can lead to pressure build-up when stored in hermetically closed systems.

Transportation

ADR/ADN: Not dangerous according to UN-Test O.3

IMDG/IATA:

| | | | |
|---------|------|-----------------------|-----------|
| UN Code | 3378 | Warning panel, Orange | 50 / 3378 |
| Class | 5.1 | Packing group | III |

For more detailed information on labeling, transport regulations, first aid and toxicological information, please refer to the material safety data sheet.

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