

Sodium Percarbonate C55

Solid Active Oxygen Agent

Sodium Percarbonate C55 is a solid, environmentally friendly and highly 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 C55 are excellent dissolution rate and low tendency for segregation in formulation.

Sodium Percarbonate C55 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 C55 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 Technical Service Department.

Standard specification

Parameter	Unit	specification limits	typical production data
Active oxygen	%	≥ 13.0	13.3
Bulk density	g/l	900 - 1200	1100
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	10.6 ± 0.2
Water solubility 20°C, g/l	140

Production plant

Althofen Austria

Packaging

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

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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. 2836.9990

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

Storage

Sodium Percarbonate C55 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 C55 protected from all types of contamination and away from combustible/oxidizable materials.

Safe handling

While working with Sodium Percarbonate C55, 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 C55 is classified as an oxidizer. Improper handling may result in rapid decomposition. Decomposition of Sodium Percarbonate C55 can liberate oxygen and steam which can lead to pressure build-up when stored in hermetically closed systems.

Transportation

UN Code	3378	Warning panel, Orange	50 / 3378
ADR/RID 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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Technical Data Sheet
02.02.2018
SPC C55/02
Page 2/2