

Sodium Persulfate

Inorganic oxidizing salt used in surface treatment, etching and radical-initiation processes.

CAS 7775-27-1	EC 231-892-1	Transport Class 5.1 · UN 1505 · PG III
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Product Information

Sodium persulfate is an oxidizing salt that can generate sulfate radicals under appropriate activation conditions. The crystal grade controls active oxygen, moisture and selected ionic and metal impurities. It is an oxidizer and a respiratory and skin sensitizer; dust exposure and contact with combustible contamination must be prevented. Process selection depends on activation conditions, substrate compatibility and the complete chemical system. Qualify the crystal grade against both the process requirements and the controlled quality specification before establishing a commercial treatment or initiation program.

Specifications

Parameter	Specification
Appearance	White crystals
Assay	≥99.0 %
Active oxygen	≥6.65 %
Ammonia	≤0.05 %
Chloride	≤0.005 %
Heavy metals, as Pb	≤0.001 %
Iron	≤0.001 %
Manganese	≤0.0001 %
Moisture	≤0.05 %

Typical Properties

Property	Typical Value
Molecular formula (component)	Na ₂ S ₂ O ₈
Molecular weight (component)	238.10 g/mol

Applications

Metal surface treatment: Evaluate sodium persulfate for suitable etching and surface-treatment baths.

Polymer initiation: Use as an initiator in compatible polymerization systems with a defined activation and dosing method.

Controlled oxidation: Assess persulfate in oxidation processes with suitable activation and containment.

Packaging / Storage

Item	Information
Packaging	25 kg or 1,000 kg bags.
Storage	Store cool and dry in closed containers, separated from combustible materials, reducing agents and sources of contamination.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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