

## TECHNICAL DATA SHEET

**Product Name:** Potassium peroxymonosulfate Standard Grade

**Molecular Formula:**  $2\text{KHSO}_5 \cdot \text{KHSO}_4 \cdot \text{K}_2\text{SO}_4$

**Molecular Weight:** 614.76 g/mol

**CAS No.:** 37222-66-5

### Description

Potassium peroxymonosulfate is a white, granular, odorless, free-flowing oxidizing compound composed of potassium monopersulfate triple salt. It is a powerful, fast-acting oxidizer that releases active oxygen in aqueous solutions.

### Specifications

S.No.	Test	Unit	Specification
1	Appearance		White, granular, odorless, free-flowing powder
2	Assay ( $2\text{KHSO}_5 \cdot \text{KHSO}_4 \cdot \text{K}_2\text{SO}_4$ )	%	100
3	Active Component ( $\text{KHSO}_5$ )	%	> 42.8
4	Active Oxygen	%	> 4.50
5	Moisture	%	< 0.1
6	Bulk Density	$\text{g/cm}^3$	1.0 – 1.20
7	pH (1% solution, 25°C)		2.0 – 2.3
8	Particle Size USS#016 (1180 $\mu\text{m}$ )		99.0 – 100.0
9	Particle Size USS#020 (850 $\mu\text{m}$ )		80.0 – 100.0
10	Particle Size USS#030		63.0 – 100.0

	(600 µm)	
11	Particle Size USS#100 (150 µm)	5.0 – 33.0
12	Particle Size USS#200 (75 µm)	≤ 10.0

## Applications

Potassium Peroxymonosulfate is widely used as an oxidizing agent and disinfectant in multiple industries:

- Swimming pools and spas: as a non-chlorine shock treatment
- Water treatment: oxidation of contaminants and disinfection
- Textile & pulp industries: bleaching and desizing agent
- Organic synthesis: as an oxidizing reagent
- Plastics and electronics: surface treatment and cleaning agent

## Storage

- Store in a cool, dry, well-ventilated area away from moisture and direct sunlight.
- Keep container tightly closed when not in use.
- Avoid contact with reducing agents, organic materials, or combustible substances.
- Recommended storage temperature: below 30°C.

## Packaging

- Available in 25 kg HDPE bags with inner polyethylene liner or as per customer requirements.
- Packaging ensures protection from moisture and contamination during storage and transport.

## Shelf Life

Minimum 2 years from the date of manufacture under proper storage conditions in original unopened packaging.

## Safety Information

Potassium peroxydisulfate is an oxidizing substance.

### Vishnupriya Chemicals Private Limited

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- Avoid contact with organic materials and reducing agents.
- May cause skin and eye irritation.
- Handle with suitable protective gloves, safety goggles, and clothing.
- In case of contact, rinse thoroughly with water.
- Avoid inhalation of dust; use in a well-ventilated area.
- Refer to the Safety Data Sheet (SDS) for detailed hazard and first aid information.

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