

Technical Data Sheet (TDS)

NaPS / SPS



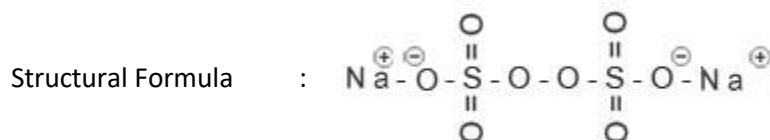
AMINISHA ORGANICS LLP

Sodium Peroxodisulfate (Sodium Persulfate) / NaPS / SPS

CAS#7775-27-1

Technically Pure, Solid

Molecular Formula : $(\text{Na})_2\text{S}_2\text{O}_8$ Molecular Weight : 238.13



Description : Sodium persulfate is a white, crystalline, odourless salt with a density of 1.98 consisting of technically pure Sodium peroxodisulfate. It is used as an initiator (source of free radicals) for the polymerisation of monomers and as a strong oxidizing agent in many applications. As a result of the process used for its production it is free from contamination by ammonium ions. Sodium peroxydisulfate can be optionally supplied with an addition of silicic acid. It has the particular advantage of being almost non-hygroscopic, of having a good storage stability as a result of its extremely high purity and of being easy and safe to handle.

Technical Data :

Sr. No.	Test	Specification
1	Appearance	White crystalline solid
2	Assay	99.9 % min.
3	Acidity (as H ₂ SO ₄)	0.01% w/w
4	Bulk density (20°C)	1250 kg/m ³
5	Solubility in water at 20°C	545 g/L
6	pH (10% solution in water)	4.0
7	Active Oxygen	6.7% w/w
8	Iron (Fe)	NMT 0.001% w/w
9	Moisture	0.03 % w/w
10	Decomposition temperature	180°C
11	Recommended storage temperature	< 30°C
12	Storage stability as from date of delivery	12 months

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Applications	<p>: <u>Polymerization</u>: Initiator for the emulsion or solution Polymerization of acrylic monomers, vinyl acetate, vinyl chloride etc. and for the emulsion co-polymerization of styrene, acrylonitrile, butadiene etc.</p> <p><u>Metal treatment</u>: Treatment of metal surfaces (e.g. in the manufacture of semiconductors; cleaning and etching of printed circuits), activation of copper and aluminium surfaces.</p> <p><u>Cosmetics</u>: Essential component of bleaching formulations.</p> <p><u>Paper</u>: modification of starch, repulping of wet - strength paper.</p> <p><u>Textile</u>: Desizing agent and bleach activator - particularly for cold bleaching. (i.e. bleaching of Jeans).</p> <p><u>Others</u>:</p> <ul style="list-style-type: none">- Chemical synthesis- Water treatment(decontamination)- Waste gas treatment, oxidative degradation of harmful substances (e.g. Hg)- Disinfectant	
Packing	: 25 kgs and 50 kgs net polyethylene and polypropylene bags.	
Storage	: It must be stored in well closed original packing and protected from direct sunlight, heat and humidity. Impurities such as dirt, rust or traces of metal.	Keep dry and within safe temperature limits.
Safety & precautions	: Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists or dust.	