



POTASSIUM PERSULFATE / (POTASSIUM PEROXYDISULFATE) $K_2S_2O_8$

PRODUCT SPECIFICATIONS

Appearance	:	White Crystal	Analytical Method
Purity ($Na_2S_2O_8$)	:	min. 99% (w/w)	Scanning
Active Oxygen	:	min. 5,86% (w/w)	Iodometric Titration
Acid Content (as H_2SO_4)	:	max. 0,15% (w/w)	Iodometric Titration
Iron (Fe) Content	:	max. 5 ppm	Titration (Reaction with NaOH)
Heavy Metals (as Pb)	:	max. 5 ppm	Colorimetric
			Turbidimetric

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Weight	:	270,3		
Specific Gravity	:	2,48		
pH Value (%5 solution)	:	3-5		
Thermal Decomposition	:	100°C		
Solubility in Water	:	60	170	(g/L)
		25	50	(°C)

PACKAGING

25 kgs and 1000 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 and reductants may cause catalytic decomposition. It can be stored for 24 months below 30°C. The product as supplied or in solution needs to be handled with appropriate care. The eye, skin and clothes must be protected when working with PPS as damp powder or aqueous solution has a bleaching and slightly corroding effect.

APPLICATION FIELDS

- 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.
- Oxidizing agent, used in cleaning and pickling of metal surface, accelerated curing of low formaldehyde adhesives and modification of starch, production of binders and coating materials.
- Desizing agent and bleach activator. It is an essential component of bleaching formulations for hair cosmetics.
- Chemical synthesis.

SECURITY PRECAUTIONS

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists or dust. Do not eat, drink or smoke in work area. Prevent contact with combustible or organic materials. Label containers and keep them tightly closed when not in use. Wash thoroughly after handling.