

## AMMONIUM PERSULFATE

AMMONIUM PEROXYDISULFATE (NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>8</sub>

Specifications	Value	Test Method
Appearance	White Crystal	Scanning
Purity (NH <sub>4</sub> ) <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Min. %99 (w/w)	Iodometric Titration
Active Oxygen	Min. %6.94 (w/w)	Iodometric Titration
Acid Content (as H <sub>2</sub> SO <sub>4</sub> )	Max. %0.10 (w/w)	Titration (Reaction with NaOH)
Iron (Fe) Content	Max. 5 ppm	Colorimetric
Heavy Metals (as Pb)	Max. 5 ppm	Turbidimetric

### PRODUCT DESCRIPTION

Molecular Weight	: 228.2 kg/kmol		
Specific Gravity	: 1,980 kg/m <sup>3</sup>		
pH Value (%5 solution)	: 3-5		
Thermal Decomposition	: ≥65°C		
Solubility in Water	: 85(25 °C)	: 116(50 °C)	(g/100 g H <sub>2</sub> O)

### APPLICATION

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.

### PACKAGING, STORAGE & SHELF LIFE

25 kgs and 1000 kgs net polyethylene and polypropylene bags. 1000 kgs bag has antistatic properties. 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 12 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 APS as damp powder or aqueous solution has a bleaching and slightly corroding effect.

### SAFETY & 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. For drinking water applications, the optimum dosing must be max. 43 mg/L.

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