

APS PERSULFATO DE AMONIO

Ammonium persulfate (ammonium peroxydisulfate)

Molecular weight 228.20

CAS# 7727-54-0

Technically pure, salt

DESCRIPTION:

Ammonium persulfate is a white, crystalline, odourless salt. It is used as initiator for the polymerization of monomers and as a strong oxidizing agent in many applications. It has the particular advantage of being almost non-hygroscopic, of having a particularly good storage stability as a result of its extremely high purity and of being easy and safe to handle.

TECHNICAL DATA:

Appearance	white crystalline salt
Assay	98.5% w/w min
Active oxygen	6.9% w/w min
Residue after ignition (as SO ₄ ²⁻)	0.02% w/w max
Chloride and chlorate (as Cl)	0.001% w/w max
Manganese (Mn)	0.00005% w/w max
Iron (Fe)	0.0005% w/w max
Heavy metals (as Pb)	0.0005% w/w max
Moisture	0.10% w/w max
Descomposition of the product as supplied	at above 60°C
Recommended storage temperature	below 30°C
Storage stability as from date of delivery	12 months

STORAGE:

APS is not combustible but assists combustion of combustible materials due to release of oxygen. Provided it is stored under appropriate condition. It must be stored dry in closed containers and protected from direct sunlight, heat and humidity. Impurities such as dirt, rust or traces of metal and reductants may cause catalytic decomposition. 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. APS as damp powder or aqueous solution has a bleaching and slightly corroding effect.

Oficina

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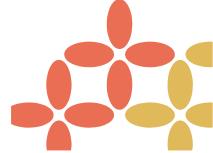
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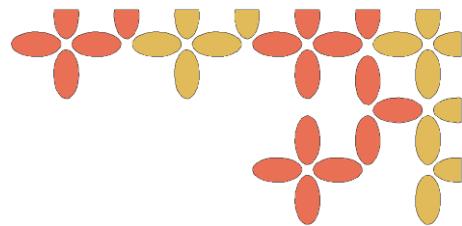
A.V uno norte No.15

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APPLICATION

Polymerisation: initiator for the emulsion or solution polymerization of acrylic monomers, vinyl acetate, vinyl chloride etc. and for the emulsion copolymerization of styrene, acrylonitrile, butadiene etc. dosage: 0.1-0.5% APS. Temperature: 75-95°C. in combination with redox systems (ascorbic acid, rongalit, sultites or sugar – possibly in combination with heavy metal salts such as Fe²⁺ it can also be used for polymerization reactions carried out at lower and even at ambient – temperatures. To reduce the residual monomer content, a combination of APS with TBHP – 78-AQ is recommended, particularly in cases where redox systems are used.

Metal treatment: treatment of metal surfaces (e.g. in the manufacture of semiconductors cleaning and etching of printed circuits), activation of copper and aluminium surfaces.

COSMETICS

Essential component of bleaching formulations.

TEXTILE

Desizing agent and bleach activator – particularly for cold bleaching

OTHERS

Chemical synthesis

Water treatment (descontamination)

Waste gas treatment, oxidative degradation of harmful substances (e.g. Hg)

Disinfectant

Paper (modification of starch, repulping particularly for cold bleaching)

PACKAGE

25 kg net weight paper bag with one PE liner

All information is given in good faith, but without warranty, since the conditions of use are outside our control. Verification by the user is recommended. Freedom from patent restrictions cannot be assumed.

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