



Sodium Tripolyphosphate

Byname: Pent-sodium Phosphate

Molecular formula: Na₅P₃O₁₀

Molecular Weight: 367.86

Standard executed : GB9983-88

Capacity: 15000 t/a

Properties:

White powder; Melting point 622; Easily soluble in water; It has got salient chelating capacity to ions of Ca and Mg etc. and can soften hard water to make suspension solution become into clear solution; It has got weak alkalinity but no corrosiveness. It is a surfactant, and has got outstanding emulsification to lubricants and fat. It has different bulk density, i.e. low density 0.35-0.5g/cm³, medium density 0.51-0.65g/cm³ and high density 0.66-0.9g/cm³. This product has two crystalline forms, namely Type I (high temperature type) and Type II (low temperature type). The chemical properties of the two types are the same, and the difference between them lies in the thermostability, hygroscopicity, solubility and hydration heat when dissolving .

Uses:

Used as one of the main auxiliaries for synthetic detergent, synergist for soap; water softener, tanning agent for leather making, auxiliary for dyeing; As an effective dispersion agent for suspension solutions of coatings, kaolin, magnesium oxide, calcium carbonate and drilling mud etc.; As an oil contamination resistance agent in paper production. In foodstuff industry it is used as quality improver in the process of canned food, fruit juice drinks, foodstuffs from milk or soybeans. It may tender the meat in canned ham and soften the skin of horse bean in canned horse bean. It may also serves as a softener or densifier in foodstuff industry.

Packing and storage:

In 25Kg or 50 Kg or 1000 Kg net WPP/PE bags. It must be prevented from Dampness and water. Don't store it in the open air.

Indexes	Industrial Grade		Food Grade
	For Export Market	For Domestic	
Assay Na ₅ P ₃ O ₁₀ % min	94.0	90.0	94.0
P ₂ O ₅ % min	57.0	57.0	57.0
Water Insoluble Matter % max	0.15	0.15	0.05
Iron(Fe) % max	0.01	0.01	0.01
PH value (1% water solution)	9.2-10.0	9.2-10.0	9.5-10.0
Heavy Metal (as Pb) % max			0.001
Arsenic (As) % max			0.0003
Fluoride (F) % max			0.003
Particle Size			
Through 16 mesh sieve % max	95	95	95
Through 35 mesh sieve % max	90	90	90
Trough 100 mesh sieve % max	40	40	40
Whiteness % max	90	85	90