



Aditya Birla Chemicals (Thailand) Ltd.
[Phosphates Division]
Bangkok, Thailand

Sodium Hexametaphosphate (SHMP) FOOD GRADE

FINE

Technical Data

Commercial Name:	Sodium Hexametaphosphate –Fine	Synonyms :	-Sodium polyphosphate -Graham's salt
Grade :	Food Grade	CAS no :	68915-31-1
Formula /Mol. Weight :	(NaPO ₃) _n /(102)n	Appearance :	White odourless powder- Hygroscopic, risks of caking
		E Number :	E452(i)
Conforms to :	EU Directive, FCC VI, JECFA and NSF Standards.		

Specification :

Parameters	Unit	Specifications	Method
pH(1% Solution)		6.5 – 7.2	FCC
Bulk Density	gm/cc	1.0 min.	ASTM-D1895B
Moisture (at 110 Deg C for 4 hr)	%	0.5 max.	FCC
Water Insoluble	%	0.1 max.	FCC
Phosphate as (P ₂ O ₅)	%	66.5 – 68.5	JECFA
Loss on ignition	%	1.0 max.	FCC
Fluoride as F	ppm	10.0 max.	FCC
Arsenic as As	ppm	3.0 max.	ICP-OES
Lead as Pb	ppm	3.0 max.	ICP-OES
Cadmium as Cd	ppm	1.0 max.	ICP-OES
Mercury as Hg	ppm	1.0 max.	ICP-OES
Heavy metal as Pb	ppm	10.0 max.	FCC

PARTICLE SIZE DISTRIBUTION:

Retained on 60 mesh (250 µm)	%	10.0 max.	ASTM-B214
Passed thru 100 mesh (150 µm)	%	70.0 min.	ASTM-B214



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Packaging

- 25 Kg Paper Bag with PE liner
- As per customer's request

Storage

SHMP-Fine , should be stored in closed containers in a cool, dry warehouse (temperature 0 – 25°C) Store it separately in compliance with Food grade regulations to avoid contamination risk.

Shelf Life

2 Years from the date of manufacturing.

Functional Uses

Sodium hexametaphosphate acts as an excellent sequestrant, curing agent, emulsifier, firming agent, flavor enhancer, flavoring agent, humectant, nutrient supplement, processing aid, stabilizer and thickener, surface-active agent, synergist, texturizer and buffering agent: Cheese, Cured Meats, Desserts, Dips, Eggs, Fillings, Fruits, Gelatin, Ice Cream, Imitation Cheese, Meat, Milk Based Beverages, Pet Food, Polymers, Poultry, Processed Cheese, Processed Meat, Seafood, Sour Cream, Starch, Syrups, Toppings, Vegetable Protein, Vegetables, Whey, Whipped Toppings, Yogurt .

Certified By

ISO 9001 : 2008

ISO 14001 : 2004

OHSAS 18001 : 2007

GMP

HACCP

KOSHER

and

HALAL



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