



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

Sodium Acid Pyrophosphate (SAPP - 40) FOOD GRADE

Technical Data

Commercial Name:	Sodium Acid Pyrophosphate -40	Synonyms :	SAPP - 40 -Disodium pyrophosphate -Disodium diphosphate
Grade /ROR	Food Grade / 40	CAS no :	7758-16-9
Formula /Mol.Weight :	Na ₂ H ₂ P ₂ O ₇ /221.94	Appearance :	White odourless powder
		E Number :	E450(i)
Conforms to :	EU Council Directive No.231/2012, FCC 10 and JECFA Standards.		

Specification :

Parameters	Unit	Specifications	Method
pH(1% Solution)		4.0 – 4.6	FCC
Bulk Density	gm/cc	0.70 min.	ASTM-D1895B
Moisture (at 110 Deg C for 4 hr)	%	0.50 max.	FCC
Water Insoluble	%	0.30 max.	FCC
Rate of release CO ₂ at 2 min	%	36.0 - 42.0	TPCA/004
Neutralizing Value	-	72.0 min.	TPCA/004
Phosphate as (P ₂ O ₅)	%	63.0 – 64.5	JECFA
Assay	%	95.0 – 100.5	FCC
Aluminium as Al	ppm	200.0 max.	ICP-OES
Arsenic as As	ppm	1.0 max.	ICP-OES
Lead as Pb	ppm	1.0 max.	ICP-OES
Fluoride as F	ppm	10.0 max.	FCC
Cadmium as Cd	ppm	1.0 max.	ICP-OES
Mercury as Hg	ppm	1.0 max.	ICP-OES

PARTICLE SIZE DISTRIBUTION:

Retained on 60 mesh (250 µm)	%	0.5 max.	ASTM-B214
Passed thru 150 mesh (105 µm)	%	90.0 min.	ASTM-B214



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Packaging

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

Storage

SAPP - 40, should be stored in closed containers in a cool, dry warehouse (temperature not more than 45°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

Acidity regulator, Sequestrant, Leavening, Stabilizer, Texturizer : Meat Processing, Processed Cheese Processing, Bakery, Potato Processing, Nuclotide (I + G) Processing, Plasticizer, etc.

Certified By

ISO 9001 : 2008

ISO 14001 : 2004

OHSAS 18001 : 2007

GMP

HACCP

SQF Code,
7.2 Edition

KOSHER

and

HALAL

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