

Sodium tripolyphosphate

STPP

APPLICATION DATA SHEET

SODIUM TRIPOLYPHOSPHATE or **STPP** is an inorganic compound. It is the sodium salt of the polyphosphate penta-anion, which is the conjugate base of triphosphoric acid. STPP is produced by heating a stoichiometric mixture of disodium phosphate, Na_2HPO_4 and monosodium phosphate, NaH_2PO_4 under carefully controlled conditions.

SODIUM TRIPOLYPHOSPHATE

Chemical name: **Pentasodium triphosphate**

CAS/EINECS number: **7758-29-4/231-838-7**

Chemical formula: **$\text{Na}_5\text{P}_3\text{O}_{10}$** (367.8 g/mol)

Custom code (TARIC): **28353100**

SPECIFICATION

Product code	1011	1014	1500 (low bulk density)
Appearance	Granular anhydrous STPP	White free flowing powder	White free flowing powder
Content of (P_2O_5)	min. 55,5 %	min. 54,5 %	min. 56 %
Content of $\text{Na}_5\text{P}_3\text{O}_{10}$	min. 94 %	min 94 %	min. 94 %
Phase I content	–	50 – 70 %	20 – 55 %
Hunter colour meter L	min. 90 %	min. 95 %	min. 90 %
Bulk density	900 – 1300 g/l	1000 – 1200 g/l	300 – 420 g/l
Particle size composition	On sieve 1,000 mm (1000 microns) max. 15 %	On sieve 425 microns (Tyler 35 mesh or equivalent) max. 5,0 %	> 710 microns max. 10 %
	On sieve 0,250 mm (250 microns) min. 90 %	On sieve 150 microns (Tyler 100 mesh or equivalent) min. 75 %	< 180 microns max. 15 %
Packing	<ul style="list-style-type: none">• 1000 kg big bags• 25 kg bags on pallets pallet 100x120 cm	<ul style="list-style-type: none">• 1000 kg big bags• 25 kg bags on pallets pallet 100x120 cm	<ul style="list-style-type: none">• PP 25 kg bags• 450 kg big bags on pallets pallet 120x80 cm



Note: All of the above results are based on the analysis of a composite sample. Individual samples may fall outside the specified typical.



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APPLICATION

- ▶ detergent industry
- ▶ ceramics
- ▶ leather tanning
- ▶ flame retardant

PACKING



AG CHEMI GROUP s.r.o.

Rybničná 18/1, 162 00 Praha 6 – Liboc, Czech Republic

Reg.No: 61508195 VAT: CZ61508195

+420 233 371 850 www.agchemigroup.eu

