



SODIUM TETRABORATE PENTAHYDRATE GRANULAR

Chemical name	Sodium Tetraborate Pentahydrate	Formula	Na ₂ B ₄ O ₇ ·5H ₂ O	Formula Weight	291.29
CAS	12179-04-3	EINECS	215-540-4 (anhydrous)	Custom tariff	2840 1910

Product Specification	Characteristics	Units	Specification Value	
			min	max
Appearance			Granular Crystals	
Colour			White	
Assay	(Na ₂ B ₄ O ₇ ·5H ₂ O)	%	100.4	103.5
Anhydrous Borax	(Na ₂ B ₄ O ₇)	%	69.4	71.5
Boron Trioxide	(B ₂ O ₃)	%	48.0	49.5
Sodium Oxide	(Na ₂ O)	%	21.4	22.0
Crystallization water	(H ₂ O)	%	28.5	30.6
Sulphates	(SO ₄)	ppm	--	200
Chlorides	(Cl)	ppm	--	600
Iron	(Fe)	ppm	--	15
Particle size:		Units	Specification Value	
			min	max
> 1.70 mm (12 mesh)		%	--	2.0

Typical Chemical-Physical Characteristics	Characteristics	Units	Value									
			min	max								
	Specific gravity (at 20 °C)	g/cm ³	1.815									
	Solubility in water											
	Temp °C	0	10	20	30	40	50	60	70	80	90	100
	g Na ₂ B ₄ O ₇ ·5H ₂ O / 100 g saturated solution	1.29	2.47	3.62	5.40	8.42	13.39	23.35	27.34	32.80	39.79	48.58
	pH at 20 °C											
	g Na ₂ B ₄ O ₇ ·5H ₂ O / 100 g solution	0.08	0.38	0.76	1.53	2.30	3.74	(Saturated solution at 20 °C)				
	pH	9.26	9.23	9.24	9.24	9.24	9.32					

Applications As additive in soaps and detergents used in the food industry; as buffering agent; in glass and ceramic industry; in recovery of metals such as brass, copper, lead and zinc; in tanning industry; in wood and paper industry; in antifreeze formulations; in starch adhesives formulation.

Packaging Standard Packaging 25 kg Bags: 1000 kg Big Bags.

Shelf Life If correctly stored, the product is chemically and physically stable. Keep away from humidity. Store product in a dry, well ventilated warehouse.

Safety Data Please refer to material safety data sheets for any information regarding hazards identification or handling and storage of this product.