

# **TECHNICAL DATA SHEET**

Sodium Perborate Tetrahydrate (NaBO<sub>3</sub>·4H<sub>2</sub>O)

## **Chemical & Physical Properties**

PARAMETER	UNIT	SPECIFICATION	TEST METHOD
Appearance	_	White crystalline powder	Visual inspection
Active Oxygen (O <sub>2</sub> )	wt%	10.0 ± 0.5	EN 50209 / Iodometric Titration
Boron (as B)	wt%	11.3 – 11.8	ICP-OES or AAS
pH (1% solution)	_	9.5 – 10.5	ASTM D1287
Moisture Content (H₂O)	wt%	14.0 – 16.0	105°C Oven / ASTM E203
Bulk Density	g/cm³	0.50 – 0.65	ISO 697
Particle Size (D90)	μm	≤ 500 µm (90%)	Sieving / ASTM E11
Stability at Room Temperature	-	Stable (min. 12 months)	Storage Simulation
Heavy Metals (Fe, Pb, etc.)	ppm	< 10	ICP-MS

#### **Packaging & Storage**

- ✓ Standard Packaging: 10 kg or 25 kg single-layer polypropylene bags
- ✓ Storage Conditions: Store in a cool (Max 30°C), dry, and well-ventilated area, away from moisture
  and acids
- ✓ Shelf Life: Minimum 12 months in original packaging

### Safety & Handling

- Avoid contact with eyes and skin
- Rinse immediately with water if exposed
- ✓ Do not mix with acidic substances (may release oxygen gas)
- ✓ Refer to SDS for detailed safety instructions

#### **Compliance & Registration**

- REACH Registered
- ✓ Complies with EU Detergent Regulation EN 50209
- ✓ Suitable for use in oxygen-based detergents, cleaning agents, and laundry formulations

www.irchemineral.com

