



DATE: JULY. 2025

VERSION: 01

SHANDONG CHENXU NEW MATERIAL CO., LTD.

TECHNICAL DATA SHEET

I. CHEMICAL COMPOSITION

Product Name	Aluminum Hypophosphite	Formula	$\text{Al}(\text{H}_2\text{PO}_2)_3$
Technical Index		Standard Value	
Appearance		White Powder	
Purity %		≥ 96	
Phosphorus content %		40~42	
PH Value %		3.0 ~ 5.0	
Moisture %		≤ 0.3	
TGA (1%) °C		≥ 300	
Particle Size μm	D ₅₀	≤ 10	
	D ₉₈	≤ 25	
Whiteness %		≥ 95	
1.0% TGA		$\geq 300^\circ\text{C}$	

II. PACKAGING & STORAGE:

25 KG/BAG, PALLETIZED, 15MT/20'GP



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- (1. STORE IN A SHADY & COOL, DRY, WELL-VENTILATED WAREHOUSE. AFTER OPENING THE PACKAGING, UNUSED MATERIAL REMAINING MUST BE RESEALED TIGHTLY.
- (2. STORAGE AREAS MUST BE KEPT AWAY FROM HEAT SOURCES, STEAM PIPES, HEATING SYSTEMS, ETC.
- (3. MUST BE STORED SEPARATELY FROM OXIDIZING AGENTS (SUCH AS PEROXIDES, CHLORATES, PERMANGANATES, NITRATES, CONCENTRATED ACIDS, ETC.). MIXED STORAGE POSES AN EXTREMELY HIGH RISK OF FIRE AND EXPLOSION.

III. SHIPPING INFORMATION:

UN NUMBER: 3178

UN PROPER SHIPPING NAME: INORGANIC FLAMMABLE SOLID, N.O.S.

TRANSPORT HAZARD CLASS(ES): 4.1

PACKING GROUP: II

HARMONIZED TARIFF NUMBER: 2835.10

V. PRODUCT ADVANTAGES

1. HIGHER PURITY: MAIN CONTENT $\geq 96.0\%$, EXTREMELY LOW IMPURITY LEVELS, STABLE FLAME RETARDANCY EFFICIENCY, ENABLING REDUCED DOSAGE AND LOWER PRODUCTION COSTS.
2. STRONG PERFORMANCE COMPATIBILITY: UNIFORM PARTICLE SIZE DISTRIBUTION, EXCELLENT COMPATIBILITY WITH RESINS, SUPERIOR DISPERSIBILITY, WITHOUT COMPROMISING PRODUCT MECHANICAL STRENGTH, WEATHER RESISTANCE, OR PROCESSING PROPERTIES.
3. ENVIRONMENTAL COMPLIANCE: HALOGEN-FREE AND HEAVY METAL-FREE FORMULATION. LOW SMOKE EMISSION DURING COMBUSTION WITHOUT GENERATING TOXIC GASES. MEETS INTERNATIONAL ENVIRONMENTAL STANDARDS INCLUDING ROHS AND REACH.
4. STABLE SUPPLY: SUPPORTED BY LARGE-SCALE PRODUCTION FACILITIES AND A COMPREHENSIVE QUALITY CONTROL SYSTEM. OFFERS CUSTOMIZED SOLUTIONS TO ENSURE RAPID ORDER FULFILLMENT AND LONG-TERM SUPPLY RELIABILITY.

V. CHEMICAL REGISTRATION NUMBERS:



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CAS NO.: 7784-22-7

EINECS NO.: 479-150-8

VI. RECOMMEND APPLICATION:

ALUMINUM HYPOPHOSPHITE IS WIDELY USED AS A FLAME RETARDANT IN PLASTICS (PP, PBT, PET, PA, TPU, ABS), DEMONSTRATING EXCELLENT FLAME RETARDANCY PARTICULARLY IN MODIFIED PLASTICS SUCH AS PP, PET, AND PA6. IT IS ALSO SUITABLE FOR APPLICATIONS IN EPOXY RESINS, ELECTRICAL WIRES AND CABLES, POLYURETHANE LEATHER, AND OTHER INDUSTRIES.

VII. OTHER INFORMATION:

ALL INFORMATION IS BASED ON DATA AVAILABLE AT THE DATE OF ISSUE.
NO GURANTY IS IMPLIED OR EXPRESSED REGARDING THE USE OF THE PRODUCTS,
SINCE THE CONDITIONS FOR USE ARE BEYOND OUR CONTROL.

VIII. CONTACT INFORMATION:

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