



## 01 公司简介

company profile

东营市金邦泰信新材料科技有限公司，成立于2013年12月，位于山东省广饶经济开发区化工园区，公司占地133300平方米，现有员工350余人，注册资金1000万元，是一家专业从事磷系无卤阻燃剂的研发、生产、销售为一体的高科技创新型企业。现已发展成集“阻燃新材料、精细化工高效纳米催化剂、凯森卓化工、红利新材料、慈航道路沥青、油品存储与运输、新型建筑工程材料、麦乐喜食品”为核心的8大产业板块。

Dongying JinbangTaixin New Material Technology Co., Ltd. was founded in December 2013, located in Guangrao Economic Development Zone, Shandong Province, the company cover 133,300 square meters, existing staff more than 350 people, the company registered capital is 10 million yuan. The company is a high-tech innovative technology enterprise specializing in the research and development, production and sales of phosphorous halogen-free flame retardants. It has developed into eight major industrial sectors with the core of "flame-retardant new materials, High efficiency nanocatalysts for fine chemicals, KaiSenZo Chemical, HongLi new materials, CiHang road asphalt, oil storage and transportation, new construction materials, and MailLeXi Food".

公司在磷系阻燃方面有自己独特的设备和技术优势，其中聚磷酸铵 APP 系列产品达到国内领先水平，产品远销欧盟、韩国、日本、俄罗斯、东南亚、美国等国家和地区，受到客户的广泛好评和信赖。欢迎顾客光临其垂询！

The company has its own unique equipment and technical advantages in phosphorus-based flame retardant, among which ammonium polyphosphate APP series products have reached the domestic leading level, and the products are exported to the EU, South Korea, Japan, Russia, Southeast Asia, the United States and other countries, it is widely praised and trusted by customers. Welcome customers to patronize the inquiry!

## 02 聚磷酸铵产品系列

聚磷酸铵：又称多聚磷酸铵或缩聚磷酸铵，简称：APP。

CAS 编号：68333-79-9；执行标准：HG/T 2770-2008

分子结构通式： $(NH_4)_{(n+2)}P_nO_{(3n+1)}$   
当 n 足够大时可写成  $(NH_4)_nPO_3$

APP-II (n≥1000) 性能指标：

序号	项 目	指 标
1	P <sub>2</sub> O <sub>5</sub> 含量 (w%)	≥71.0%
2	含磷量 (w%)	30.0-33.0
3	含氮量 (w%)	14.0-16.0
4	PH 值 (25°C, 10% 悬浮液)	5.5-7.5
5	含水量 (w%)	≤0.25
6	热分解温度 (°C)	≥275
7	堆积密度 g/ml	0.5-0.7
8	密度 g/cm <sup>3</sup> , 25°C	≈1.9
9	粘度(25C, 10% 悬浮液) mpa.s	<20
10	水溶解度 (g/100mL H <sub>2</sub> O)	≤0.5
11	平均粒径 (D50) μm	<20

外观形状：白色，流动性粉末。

用 途：APP 广泛应用于防火涂料、油漆、涂层、塑料、工程塑料、造纸、橡胶、纺织、木质纤维、OSB 刨花、木材、有机建材及新能源汽车和高铁的新型材料等制品的阻燃添加剂等。同时 APP 也是改性加工、阻燃复配领域的原材料。

安全毒性：APP 是一种无毒、无味、无卤、抑烟型磷系阻燃剂，但由于是很细的粉末，加工时应注意这方面的防护措施。

包 装：内衬聚乙烯袋，外包复合纸袋，净含量 25Kg 或 1000kg。



## AMMONIUM POLYPHOSPHATE PRODUCT SERIES

Ammonium polyphosphate: also known as ammonium polyphosphate or condensed ammonium polyphosphate, referred to as: APP.

CAS NO: 68333-79-9

executive standard: HG/T 2770-2008

MF:  $(NH_4)_{(n+2)}P_nO_{(3n+1)}$

When n is large enough it can be written as  $(NH_4)_nPO_3$

APP-II (n≥1000) Performance Index:

NO	item	index
1	P <sub>2</sub> O <sub>5</sub> content (w%)	≥71.0%
2	Phosphorus content (w%)	30.0-32.0
3	Nitrogen content (w%)	14.0-16.0
4	PH value (25°C, 10% suspension)	5.5-7.5
5	Water content (w%)	≤0.25
6	Thermal decomposition temperature (°C)	≥275
7	bulk density g/ml	0.5-0.7
8	Density g/cm <sup>3</sup> , 25°C	≈1.9
9	viscosity (25C, 10% suspension) mpa.s	<20
10	Water solubility (g/100mL H <sub>2</sub> O)	≤0.5
11	average grain diameter (D50) μm	<20

Appearance Shape: white, flowing powder.

Application: APP are widely used in fire retardant coatings, paints, coatings, plastics, engineering plastics, paper, rubber, textile, wood fiber, OSB wood shavings, wood, organic building materials, new energy vehicles, high-speed rail and so on. At the same time, APP is also a raw material in the field of modified processing and flame retardant compounding.

Safety toxicity: APP is a non-toxic, tasteless, halogen-free, smoke-suppressing phosphorous flame retardant, but because it is a very fine powder, attention should be paid to protective measures in this respect when processing.

Packing: inner polyethylene bag, outside compound paper bag, net content 25Kg or 1000kg.

## 03 聚磷酸铵 (APP) 产品系列

聚磷酸铵 (APP) 产品系列									
序号	产品特性与应用	JBTX-APP-210	JBTX-APP-212	JBTX-APP-212/3	JBTX-APP-215	JBTX-MAPP-211	JBTX-APP-020	JBTX-APP-050	
1	P <sub>2</sub> O <sub>5</sub> 含量 w%	>71%	>72%	>72%	>72.0%	>71.0%	>69.0%	>75.0%	
2	P含量 w%	29-31	31-32	31-32	31-32	31-32	29-30	32-34	
3	N含量 w%	14%	≥14%	≥14%	≥14%	≥15%	≥14%	>14%	
4	聚合度 n	>1000	>1200	>1200	>1500	>1200	150-200	>500	
5	白度	≥90	≥87	≥90	≥89	≥90	≥90	≥90	
6	溶解度/g/100ml H <sub>2</sub> O	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	
7	分解温度/°C	250	270	280	290	250	225	250	
8	PH值 (25°C, 10% 悬浮液)	5.5-7.5	5.5-7.5	5.5-7.5	5.5-7.5	5.5-7.5	5.5-7.5	5.5-7.5	
9	水分 w%	≤0.25	≤0.25	≤0.25	≤0.25	≤0.25	≤0.25	≤0.25	
10	堆积密度/g/ml	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	
11	密度/g/cm <sup>3</sup> , 25°C	≈1.9	≈1.9	≈1.9	≈1.9	≈1.9	≈1.9	≈1.9	
12	粒度 D50/μm	16-20	16-20	18-20	<12	16-18	17-20	16-20	
13	酸值mgKOH/g	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	/	/	
14	表面处理	无处理	无处理	无处理	无处理	三聚氰胺处理	无处理	无处理	
15	毒性	未检出	未检出	未检出	未检出	未检出	未检出	未检出	
16	推荐用途	1.膨胀型防火涂料 2.APP改性塑料 3.木质纤维板 4.纺织 5.工程塑料 6.聚氨酯	1.塑料、橡胶及阻燃剂 2.塑料 PP, PE, PU, UP, PP, EP, AO, IC 3.纤维增强 4.阻燃剂 5.户外复合材料 6.聚氨酯、橡胶 6.电缆防火漆	1.船舶内饰 2.三聚氰胺防火漆 3.阻燃型防火涂料 4.工程塑料 5.户外复合材料 6.新型建材	1.膨胀型防火涂料 2.汽车油漆、内饰 3.APP改性塑料 4.环氧树脂 5.APP改性塑料 6.聚氨酯、橡胶 7.聚合物PU和EP 8.聚氨酯、橡胶	1.塑料、橡胶、纤维 2.汽车油漆、内饰 3.纤维增强 4.阻燃剂 5.工程塑料、橡胶 6.聚氨酯、橡胶	1.塑料、橡胶、纤维 2.汽车油漆、内饰 3.纤维增强 4.阻燃剂 5.APP改性塑料 6.聚氨酯、橡胶	1.塑料、橡胶、纤维 2.汽车油漆、内饰 3.纤维增强 4.阻燃剂 5.APP改性塑料 6.聚氨酯、橡胶	1.塑料、橡胶、纤维 2.汽车油漆、内饰 3.纤维增强 4.阻燃剂 5.APP改性塑料 6.聚氨酯、橡胶
强烈推荐		APP为膨胀型阻燃剂，可以单独使用，也可以复配使用，复配使用效果更佳。							
备注：包装：内衬聚乙烯袋，外包复合纸袋，25kg/袋或1000kg/袋，也可按用户定制。									

## AMMONIUM POLYPHOSPHATE PRODUCT SERIES

Product series of Ammonium polyphosphate (APP)									
NO.	Product features and application	JBTX-APP-210	JBTX-APP-212	JBTX-APP-212/3	JBTX-APP-215	JBTX-MAPP-211	JBTX-APP-020	JBTX-APP-050	
1	P <sub>2</sub> O <sub>5</sub> content w%	>71%	>72%	>72%	>72.0%	>71.0%	>69.0%	>75.0%	
2	P content w%	29-31	31-32	31-32	31-32	31-32	29-30	32-34	
3	N content w%	14%	≥14%	≥14%	≥14%	≥15%	≥14%	>14%	
4	Degree of polymerization n	>1000	>1200	>1200	>1500	>1200	150-200	>500	
5	whiteness	≥90	≥87	≥90	≥89	≥90	≥90	≥90	
6	solubility /g/100ml H <sub>2</sub> O	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	
7	Decomposition temperature /°C	250	270	280	290	250	225	250	
8	PH value (25°C, 10% suspension)	5.5-7.5	5.5-7.5	5.5-7.5	5.5-7.5	5.5-7.5	5.5-7.5	5.5-7.5	
9	moisture w%	≤0.25	≤0.25	≤0.25	≤0.25	≤0.25	≤0.25	≤0.25	
10	bulk density /g/ml	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	
11	density /g/cm <sup>3</sup> , 25°C	≈1.9	≈1.9	≈1.9	≈1.9	≈1.9	≈1.9	≈1.9	
12	particle size D50/μm	16-20	16-20	18-20	<12	16-18	17-20	16-20	
13	acid value mgKOH/g	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	/	/	
14	Surface treatment	NO	NO	NO	NO	lamine treatm	NO	NO	
15	Toxicity	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected	
16	Recommended use	1. expansive fireproof paint 1.3h 2. APP modified raw retardant materials 3. wood fiberboard 4. Fabric 5. Engineering plastics 6. Polyurethane	1. plastic, rubber compound flame retardant 2. plastic PP, PE, PU, UP, PP, EP, AO, IC 3. Fiberboard B1-C 4. fabric coating 5. polyester, rubber 6. cable fireproof coating	1. Urea-formaldehyde resin 2. Melamine resin 3. expansion type fireproof paint 2.5h 4. engineering plastics 5. outdoor fireproof polymer 6. New building materials	1. expansion type fireproof paint 2.5h 2. car paint, interior flame retardant effect is excellent. 3. APP modified raw materials 4. epoxy resin 5. APP modified raw materials 6. expansion outdoor paint 7. polymer PU and EP inunscent	1. plastic, PP, PE, EVA expansion flame retardant effect is excellent. 2. OSB particleboard 3. APP modified raw materials 4. Fiberboard	1. coatings, plastics, rubber flame retardant additives 2. Fiberboard B1-C 3. APP modified raw materials 4. Dip in plus 5. Compound materials for instrument flame retardant system	1. Fiberboard 2. APP modified raw materials 3. Coating 4. Dip in plus 5. Compound materials for instrument flame retardant system	1. Fiberboard 2. APP modified raw materials 3. Coating 4. Dip in plus 5. Compound materials for instrument flame retardant system
Highly recommend		As an expansive flame retardant, APP can be used alone or in combination, and the effect is better when used in combination.							
Note: Packing: polypropylene lined bag, outsourced woven bag, 25kg/bag or 1000kg/bag, can also be customized.									

# JBTX

## 合作共赢 创新发展

win win cooperation, innovation development

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## 04 公司产品 Company products



### 产品包装 Product packaging



### 出口装柜 Export loading



### 化验室 LAB



## 05 应用领域 Application area



# JBTX

东营市金邦泰信新材料科技有限公司  
Dong ying Jin bang tai xin new Material Technology co., ltd

绿色 green 环保 Environmental protection 阻燃 anti-flaming 安全 safety