

FOPIA
PRODUCT

CATALOG

富比亚化学产品手册



科学至上

IN SCIENCE WE TRUST



企业简介

江苏富比亚化学品有限公司（FOPIA）（以下简称：富比亚）成立于2010年，位于盐城市滨海沿海工业园区内。2021年8月26日，成为中化国际（控股）股份有限公司全资子公司。

富比亚是一家研发、生产和销售专业化学助剂的企业，共有新材料、精细化工（农药 / 医药中间体和农药）、委托加工三大业务板块，主营生产多种添加剂产品，主要品种有紫外线吸收剂、光稳定剂、阻聚剂、抗氧化剂系列。公司坚持“科学至上”理念，注重科技创新、安全环保和可持续发展，助力中化国际打造世界级的材料平台。

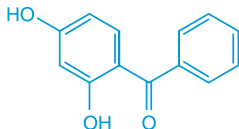
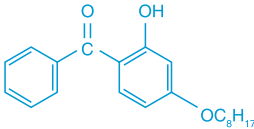
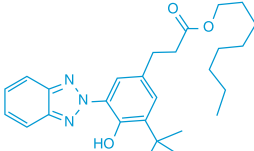
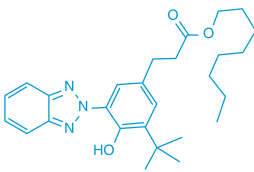


Company Introduction

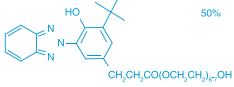
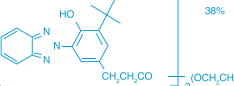
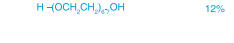
Established in 2010 and located in Binhai Coastal Industrial Park , Yancheng, Jiangsu, Jiangsu FOPIA Chemicals Co., Ltd. (FOPIA) became a wholly-owned subsidiary of Sinochem International on August 26, 2021.

FOPIA is dedicated to developing, manufacturing and marketing specialized chemical additives. It has three business segments : new materials, fine chemicals (agrochemicals/pharmaceutical intermediates and pesticides) and commissioned processing. The company mainly manufactures a variety of additive products such as ultraviolet absorbers, light stabilizers, polymerization inhibitors and antioxidants. It adheres to the philosophy of “In Science We Trust”, attaches importance to technological innovation, safety, environmental protection and sustainable development, and helps Sinochem International to build a world-class material platform.

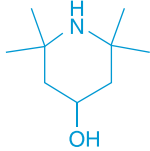
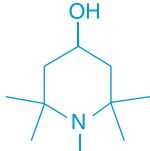
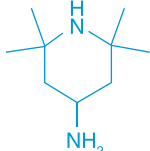
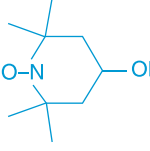

紫外线吸收剂 UV Absorbers

产品代号 Trade Name	化学名称 Chemical Name	CAS 号 CAS No.	结构式 Structural Formula	规格指标 Specification	适用领域及用量 Application
FENTAUNIV 0	2, 4- 二羟基二苯甲酮 2,4-Dihydroxy Benzophenone	131-56-6		外观：淡黄色结晶粉末 含量：≥99.5% 透光率：290nm ≥630% Appearance: Yellow needle crystalline powder Assay : ≥99.5% Transmittance : 290nm ≥630%	聚烯烃、聚氯乙烯和聚苯乙烯 紫外线吸收剂中间体 0.1~0.5% It could be used in polyvinyl chloride, polystyrene, etc. It is also be used as intermediate of UV absorber products. 0.1~0.5%
FENTASORB 531	2- 羟基 -4- 正辛氧基二苯甲酮 2-hydroxy-4-n-octoxybenzophenone	1843-05-6		外观：淡黄色针状结晶粉末 纯度：≥99.0% 灰分：≤0.1% 透光率：450nm≥94% 500nm≥97% Appearance: Pale yellow acicular crystalline powder Purity : ≥99.0% Ash content: ≤0.1% Transmittance : 450nm≥94% 500nm≥97%	性价比高、颜色浅、无毒、相容性好；ABS, Elastomer, EVA, PC, PE, Polyester, PP, PVC 等树脂中 0.1~0.5% It can protect polymers, and widely used in PE, PVC, PP, PS, PC ;organic glass, acrylic acid, auto powder coatings, polyurethane and rubber products. 0.1~0.5%
FENTAUNIV 384-2	3-(2H- 苯并三唑基)-5-(1,1- 双 - 甲基)-4- 羟基 - 苯丙酸辛酯 BenzenepropanoicAcid,3-(2Hbenzotriazol-2-yl)-5-(1,1-Dimethylethyl)-4-Hydroxy-,C7-9- Branched And Linear Alkyl Esters	127519-17-9 108-65-6		外观：淡黄色液体 含量：≥94.0% 灰分：≤0.1% 透光率：460nm≥95% 500nm≥97% Appearance: Light yellow liquid Assay : ≥94.0% Ash content: ≤0.1% Transmittance : 460nm≥95% 500nm≥97%	体系相容性好，化学稳定性好，耐迁移，耐萃取，颜色浅 汽车涂料、卷钢涂料、木器涂料；1.0%-3.0% 单独使用 0.8%-2.0% HALS 292 复配使用 1. Automotive coatings, industrial coatings, wood, and plastics coatings. 2. Used in combination with HLAS 292 is better. 3. 1.0-3.0%
FENTAUNIV 99-2	3-(2H- 苯并三唑基)-5-(1,1- 双 - 甲基)-4- 羟基 - 苯丙酸辛酯 BenzenepropanoicAcid,3-(2Hbenzotriazol-2-yl)-5-(1,1-Dimethylethyl)-4-Hydroxy-,C7-9- Branched And Linear Alkyl Esters	127519-17-9		外观：深褐色液体 含量：≥94.0% 灰分：≤0.1% Appearance: Dark yellow liquid Assay : ≥94.0% Ash content: ≤0.1%	适用于对颜色要求不高的领域，耐迁移、耐萃取，性价比高 汽车涂料、卷钢涂料、木器涂料；1.0%-3.0% 单独使用 0.8%-2.0% HALS 292 复配使用 1. Automotive coatings, industrial coatings, wood, and plastics coatings. 2. Used in combination with HLAS 292 is better. 3. 1.0-3.0%

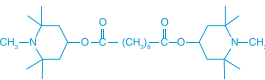
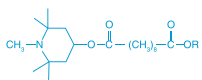
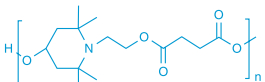
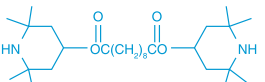
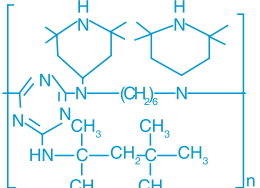

紫外线吸收剂 UV Absorbers

产品代号 Trade Name	化学名称 Chemical Name	CAS 号 CAS No.	结构式 Structural Formula	规格指标 Specification	适用领域及用量 Application	
FENTAUNIV 1130	β-[3-(2-H- 苯并三唑 -2- 基)-4- 羟基 -5- 叔丁基苯基]- 丙酸聚乙二醇 300 酯 (40%-55%) [3-[3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-hydroxypoly(oxo-1,2-ethanediyl) (40%-55%)	104810-48-2				
	双 -[β-[3-(2-H- 苯并三唑 -2- 基)-4- 羟基 -5- 叔丁基苯基]- 丙酸]- 聚乙二醇 300 酯 (35%-45%) α-[3-[3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]poly(oxy-1,2-ethanediyl)	104810-47-1			外观：黄色或浅琥珀色粘稠液体 灰分：≤0.1% 干燥失重：≤1.0% 透光率：460nm≥96% 500nm≥98% Appearance: Yellow or light amber viscous liquid Ash content:≤0.1% Loss on drying: ≤1.0% Transmittance : 460nm≥96% 500nm≥98%	体系相容性好，在水性体系下易乳化；化学稳定性好，低挥发性水性和溶剂型涂料体系 汽车涂料、木器着色涂料 工业涂料等领域 1.0%-3.0% 单独使用 0.8%-2.0% 和 HALS 292 复配使用 1.Automotive coatings, industrial coatings, trade sales coatings. 2.Used in combination with HLAS 292 is better. 3. Coatings, 1.0-3.0% .
	聚乙二醇 300 (10%-16%) Polyethyleneglycol 300 (10%-16%)	25322-68-3				
FENTAUNIV 5151	UV-1130 和 HALS292 的混合物 Mixture of UV-1130 and HALS292	104810-48-2 104810-47-1 25322-68-3 41556-26-7 82919-37-7		外观：黄色或浅琥珀色粘稠液体 灰分：≤0.5% 透光率：550nm≥97% Appearance: Yellow to light amber viscous liquid Ash content: ≤0.5% Transmittance : 550nm≥97%	兼具紫外线吸收剂和受阻胺光稳定剂的双重优点，具有良好的协同使用效果 汽车涂料、木器着色涂料，工业涂料等领域 1.0%-3.0% Automotive coatings, industrial coatings, trade sales coatings. 1.0%-3.0%	

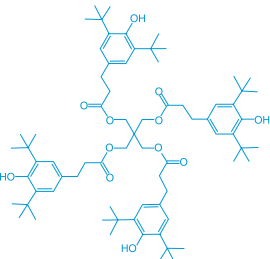
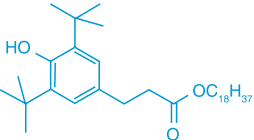
三丙酮胺及其衍生物 Triacetoneamine & Its Derivatives

产品代号 Trade Name	化学名称 Chemical Name	CAS 号 CAS No.	结构式 Structural Formula	规格指标 Specification	适用领域及用量 Application
FENTAPUR TMP	四甲基哌啶醇 2,2,6,6-tetramethylpiperidin-4-ol	2403-88-5		外观：白色结晶 含量：≥99.0% 挥发分：≤0.5% 灰分：≤0.1% Appearance: White crystal Assay: ≥99.0% Volatility: ≤0.5% Ash content: ≤0.1%	受阻胺类光稳定剂原料 医药、漂白剂、环氧树脂交联剂等中间体 Intermediate for Hindered amine light stabilizer.
FENTAPUR PMP	五甲基哌啶醇 1,2,2,6,6-pentamethylpiperidin-4-ol	2403-89-6		外观：白色片状固体 含量：≥99.0% 水份：≤0.5% 灰分：≤0.1% Appearance: White flake Assay: ≥99.0% Water content: ≤0.5% Ash content: ≤0.1%	受阻胺类光稳定剂原料 Intermediate for Hindered amine light stabilizer.
FENTAPUR TEMP	4-氨基-2,2,6,6-四甲基哌啶 4-amino-2,2,6,6-tetramethylpiperidine	36768-62-4		外观：无色至浅黄色液体 含量：≥99.0% 水份：≤0.1% Appearance: Colorless or slight yellow liquid Assay: ≥99.0% Water content: ≤0.1%	受阻胺类光稳定剂原料 医药中间体 Intermediate for Hindered amine light stabilizer.
FENTAPUR TMHPO	4-羟基-2,2,6,6-四甲基哌啶氧化物 (阻聚剂 701) 4-Hydroxy-2,2,6,6-tetramethyl-piperidinoxy	2226-96-2		外观：橘红色片或粉末 含量：≥99.0% 挥发分：≤0.5% Appearance: Orange flake Assay: ≥99.0% Volatility: ≤0.5%	丙烯酸、丙烯腈、丙烯酸酯、甲基丙烯酸酯、氯乙烯、苯乙烯等树脂高效阻聚剂 High efficient polymerization inhibitor for olefin and ester of acrylic acid, ester of MMA, AA, Styrene, butadiene etc.
FENTAPUR HMBTAD	N,N'-双-(2,2,6,6-四甲基-4-哌啶基)-1,6-己二胺 N,N'-Bis(2,2,6,6-tetramethylpiperidin-4-yl)hexane-1,6-diamine	61260-55-7		外观：白色结晶粉末 含量：≥99.0% 灰分：≤0.1% Appearance: White crystal powder Assay: ≥99.0% Ash content: ≤0.1%	受阻胺光稳定剂原料 Intermediate for Hindered amine light stabilizer.

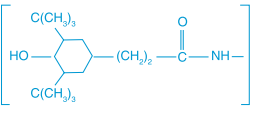
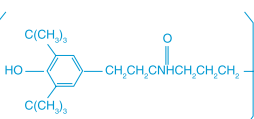
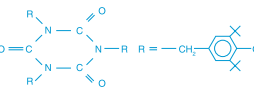
受阻胺类光稳定剂 Hindered Amine Light Stabilizers

产品代号 Trade Name	化学名称 Chemical Name	CAS 号 CAS No.	结构式 Structural Formula	规格指标 Specification	适用领域及用量 Application
FENTASTAB 292	双(1,2,2,6,6-五甲基-4-哌啶)癸二酸酯 Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7		外观: 浅黄色透明液体 含量: ≥96.0% 挥发分: ≤0.5% 透光率: 425nm≥96% 500nm≥98%	用于油漆、涂料、油墨、聚氨酯漆等。在汽车专用涂料中效果更佳。HALS 292 与紫外线吸收剂有协同作用, 0.5%-2.0% 单独使用, 与 HALS-292 1.0-3.0%
	1-甲基-8-(1,2,2,6,6-五甲基-4-哌啶)癸二酸酯 Methyl(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	82919-37-7		Appearance: Light yellow transparent liquid Assay : ≥96.0% Volatility : ≤0.5% Transmittance : 425nm≥96% 500nm≥98%	widely used in paints, inks, PU paints etc. Recommended concentration, 0.5%-2.0%. (concentrations are based on weight percent binder solids)
FENTASTAB 622	聚丁二酸(4-羟基-2,2,6,6-四甲基-1-哌啶乙醇)酯 Poly-(N-β-hydroxyethyl-2,2,6,6-tetramethyl-4-hydroxypiperidyl succinate)	65447-77-0		外观: 白色或微黄色粉末/颗粒 含量: ≥99.0% 灰分: ≤0.1% 透光率: 425nm≥95%500nm≥97%	优良的加工热稳定性; 低挥发性和耐迁移; 耐萃取、耐气体褪色 PP, PE, PS, ABS, PU, POM, TPE 能塑料制品 0.5%~2.0%
FENTASTAB 770	双(2,2,6,6-四甲基-4-哌啶基)癸二酸酯 Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	52829-07-9		外观: 白色结晶粉末 含量: ≥99.0% 挥发分: ≤0.50% 透光率: 425nm≥98%500nm≥99%	无毒、不易燃、不易爆、不腐蚀、贮存稳定性好 PP, HDPE, PU, PS, ABS 等树脂产品 0.5%~2.0%
FENTASTAB 944	聚[[6-[(1,1,3,3-四甲基丁基)氨基]-1,3,5-三嗪-2,4-[(2,2,6,6-四甲基-哌啶基)亚氨基]-1,6-己二撑[(2,2,6,6-四甲基-4-哌啶基)亚氨基]] Poly[[6-[(1,1,3,3tetramethylbutyl) amino]-1,3,5-triazine-2,4-diyl] [(2,2,6,6- tetramethyl-4-piperidyl) imino]-1,6-hexanediy] [(2,2,6,6-tetramethyl-4-piperidyl) imino]	70624-18-9		外观: 白色粉末或颗粒 含量: ≥99.0% 挥发分: ≤1.0% 透光率: 425nm≥93%500nm≥95%	优良的加工热稳定性; 低挥发性 低密度聚乙烯薄膜、聚丙烯纤维、聚丙烯胶带、EVA 薄膜、ABS、聚苯乙烯及食品包装中 0.5%~2.0%
FENTASTAB 3853	2,2,6,6-四甲基-4-哌啶硬脂酸酯 2,2,6,6-Tetramethyl-4-piperidyl stearate	167078-06-0		外观: 白色粉末或颗粒 含量: ≥99.0% 挥发分: ≤1.0% 透光率: 425nm≥93%500nm≥95%	用于聚烯烃, 与其他受阻胺光稳定剂具有良好的协同效应; 用量: 0.1-3.0%。 It has good compatibility and solubility with polyolefins. Synergistic effect with other hindered amine light stabilizers. Typical dosing level: 0.1-3.0%.

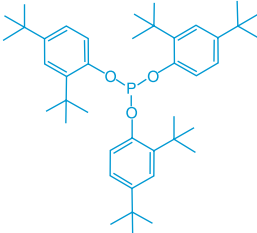
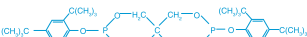
受阻酚类抗氧化剂 Hindered phenols Antioxidant

产品代号 Trade Name	化学名称 Chemical Name	CAS 号 CAS No.	结构式 Structural Formula	规格指标 Specification	适用领域及用量 Application
ECOSCINOX 1010	四 [β-(3,5- 二叔丁基 -4- 羟基苯基) 丙酸] 季戊四醇酯 Pentaerythritol tetrakis[β-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	6683-19-8		外观：白色粉末或颗粒 熔点：110.0-125.0° C 主含量：≥94.0% 有效组分：≥98.0% 挥发分：≤0.50% 透光率：425nm≥96.0% 500nm≥98.0% Appearance: White powder or granules Melting point:110.0-125.0° C Main content:≥94.0% Assay:≥98.0% Volatility :≤0.50% Transmittance:425nm≥96.0% 500nm≥98.0%	为高效的受阻酚抗氧化剂，可用于多种聚合物的稳定，如聚乙烯、聚丙烯、聚丁烯等，也可用于苯乙烯类聚合物、合成橡胶、弹性体、聚氨酯以及聚甲醛、聚酰胺、聚酯等，具有良好的加工稳定性和长效热稳定性，减少聚合物在加工和使用过程中降解，延长制品的使用寿命。 在聚合物中的典型添加量为 0.05%-0.5%，取决于聚合物种类、加工条件以及制品应用条件和要求等。 is a high performance phenolic antioxidant. It can be used in polyethylene, polypropylene, polybutene. It can also be recommended to stabilize styrenic polymers and copolymers, synthetic rubbers, elastomers, polyurethanes, polyacetals, polyamides and polyesters etc. It provides good processing stability and long term thermal stability, reduces the degradation of polymer during processing and usage to extend the life time of polymer products. The typical dosage of in polymer is 0.05% - 0.5%, depends on the substrates, processing conditions, application conditions, and also the specific requirements.
ECOSCINOX 1076	β-(3,5- 二叔丁基 -4- 羟基苯基) 丙酸十八醇酯 Octadecyl β-(3,5- di-tert-butyl- 4- hydroxyphenyl) propionate	2082-79-3		外观：白色粉末或颗粒 熔点：50.0-55.0°C 含量：≥98.0 挥发分：≤0.20% 透光率：425nm≥97.0% 500nm≥98.0% Appearance: White powder or granules Melting point: 50.0-55.0°C Assay :≥98.0% Volatility :≤0.20% Transmittance:425nm≥97.0% 500nm≥98.0%	Ecoscinox 1076 为高效的受阻酚抗氧化剂，可用于聚乙烯、聚丙烯、聚丁烯等，也可用于苯乙烯类聚合物、弹性体、聚氨酯以及工程塑料等，具有良好的加工稳定性和长效热稳定性，减少聚合物在加工和使用过程中降解，延长制品的使用寿命。 Ecoscinox 1076 在聚合物中的典型添加量为 0.05%~0.5%，取决于聚合物种类、加工条件以及制品应用条件和要求等。 Ecoscinox 1076 is a high performance phenolic antioxidant. It can be used in polyethylene, polypropylene, polybutene. It can also be recommended to stabilize styrenic polymers and copolymers, elastomers, polyurethanes, engineering plastics etc. It provides good processing stability and long term thermal stability, reduces the degradation of polymer during processing and usage to extend the life time of polymer products. The typical dosage of Ecoscinox 1076 in polymer is 0.05%~0.5%, depends on the substrates, processing conditions, application conditions, and also the specific requirements.

受阻酚类抗氧化剂 Hindered phenols Antioxidant

产品代号 Trade Name	化学名称 Chemical Name	CAS 号 CAS No.	结构式 Structural Formula	规格指标 Specification	适用领域及用量 Application
ECOSCINOX 1024	N,N, - 双 [3-(3,5- 二叔丁基 -4- 羟基苯基) 丙酰] 肼 N,N, -Bis (3-(3,5-di-tert-butyl-4-hydroxyle-phenyl) propionyl)hydrazine	32687-78-8		外观: 白色结晶粉末 熔点: 225-227°C 含量: ≥98.0 挥发分: ≤0.50% 灰分: ≤0.1% Appearance: White crystal Powder Melting point:225-227°C Assay :≥98.0% Volatility :≤0.50% Ash content:≤0.1%	本品具有受阻酚和酰肼的双重结构, 同时具有抗氧化和金属减活的功能。本品为金属减活剂, 可单独也可与通常抗氧化剂并用, 具有优异的协同作用。适用于聚乙烯、聚丙烯、聚苯乙烯、聚酰胺、聚脂, 尤其适用于作酚醛树脂的抗氧化剂, 可有效防止聚合物间过渡金属离子 (如催化剂残留物) 存在所致的自氧化。本品添加至绝缘电线、电缆用聚合物 (包括聚烯烃和弹性体) 效果更佳。完美的熔融特性使其容易混合到上述聚合物及其它聚合物体系中而不出分散问题。一般用量为 0.1-0.5 份。 This product possesses the double structures of hindered phenol and acyl, and a function of anti-oxidation and metal deactivation. This product is a kind of metal deactivator, can be used either independently or together with antioxidant. It is applicable to polyethylene, polypropylene, polystyrene, polyamide, polyester, and especially to the antioxidant used in phenolic resin. It is effectively preventing the polymeric substance from self-oxidation caused by transition metalion (the remains of the catalyst). More efficient if it is added to the polymeric substance used in insulated electric wire and cable. The perfect melting nature makes it easily to mix into the substance mentioned above and other polymeric substance system without any dispersing problem. The general dosage is of 0.1-0.5 share.
ECOSCINOX 1098	N,N,- 双 -[3- (3,5- 二叔丁基 -4- 羟基苯基) 丙酰基] 二胺 N,N,-bis-[3-(3,5-ditertbutyl-4-hydroxyphenyl) propionyl] hexanediamine	23128-74-7		外观: 白色粉末 熔点: 155-161°C 含量: ≥99.0 挥发分: ≤0.50% 透光率: 425nm≥97.0% 500nm≥98.0% Appearance: White powder Melting point: 155-161°C Assay :≥99.0% Volatility :≤0.50% Transmittance:425nm≥97.0% 500nm≥98.0%	抗氧化剂 JX -1098 是一种不变色、不污染、耐热氧化、耐萃取的高性能通用抗氧化剂。它主要用于聚酰胺、聚烯烃、聚苯乙烯、ABS 树脂、缩醛类树脂、聚氨酯以及橡胶等聚合物中, 也可与含磷的辅助抗氧化剂配合使用以提高抗氧化性, 一般用量为 0.1-1.0 份。 This product is a nonpolluting nontoxic antioxidant with good heat-resisting and water- extracting performance which mainly applied to polyolefine, polyamide, polyester, polyvinyl benzene, ABS resin and petroleum product. It is often used with DLTP for promoting the inoxidizability.
ECOSCINOX 3114	1,3,5- 三 (3,5- 二叔丁基 -4- 羟基苯基) 均三嗪 -2,4,6- (1H,3H,5H) 三酮 1,3,5-Tris(3,5-di-tert-butyl-4-hydroxy benzyl)-s-triazine-2,4,6-(1H,3H,5H) trione	27676-62-6		外观: 白色结晶粉末 熔点: 218-224°C 含量: ≥98.0 挥发分: ≤0.5% 透光率: 425nm≥95.0% 500nm≥97.0% Appearance: White crystal powder Melting point: 218-224°C Assay :≥98.0% Volatility :≤0.50% Transmittance:425nm≥95.0% 500nm≥97.0%	适用于聚乙烯、聚丙烯、聚苯乙烯、ABS 树脂、聚酯、尼龙、聚氯乙烯、聚氨酯、纤维素塑料和合成橡胶, 在聚烯烃中抗氧化效果尤为显著。与紫外线吸收剂或亚磷酸酯类并用有协同效应, 可进一步提高高热稳定性。 The product is a kind of tri-function group phenolic antioxidant, without pollution and coloring up. Dependent on high molecular weight and melting point, it has low volatility, low transferring, and good water extraction resistance, while equips plastics with resistance to thermo-oxidation and light-oxidation. AT-3114 suits for PE, PP, PS, ABS, nylon, PVC, PU, cellulose and synthetic rubber, especially effective for polyolefin. When used with UV absorbent and phosphite ester, a synergistic effect can be reached, thus enhancing the thermostability and light stability.

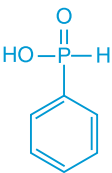
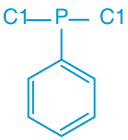
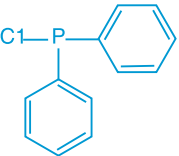
亚磷酸酯类抗氧化剂 Phosphite Antioxidant

产品代号 Trade Name	化学名称 Chemical Name	CAS 号 CAS No.	结构式 Structural Formula	规格指标 Specification	适用领域及用量 Application
ECOSCINOX 168	亚磷酸三(2,4-二叔丁基苯基)酯 Tris(2,4-di-tert-butylphenyl) phosphite	31570-04-4		外观: 白色粉末或颗粒 熔点: 183.0-187.0° C 主含量: ≥99.0% 挥发分: ≤0.30% 透光率: 425nm≥98.0% 500nm≥98.0% 酸值: ≤0.30mgKOH/g Appearance: White powder or granules Melting point: 183.0-187.0°C Main content: ≥99.0% Volatility: ≤0.30% Transmittance: 425nm≥98.0% 500nm≥98.0% Acid value: ≤0.30mgKOH/g	Ecoscinox 168 为通用的辅助抗氧化剂, 可用于烯烃聚合物的稳定, 如聚乙烯、聚丙烯、聚丁烯等, 也可用于苯乙烯类聚合物、弹性体、聚酰胺、聚碳酸酯、聚酯等, 具有良好的加工稳定性, 减少聚合物在加工过程中的氧化降解。 Ecoscinox 168 在聚合物中的典型添加量为 0.05%~0.5%, 取决于聚合物种类、加工条件以及制品应用条件和要求等。 Ecoscinox 168 is a commonly used secondary antioxidant. It can be used in polyethylene, polypropylene, polybutene. And it can also be recommended to stabilize styrenic polymers and copolymers, elastomers, polyamides, polycarbonate and polyesters etc. It provides good processing stability, reduces the degradation of polymer during processing. The typical dosage of Ecoscinox 168 in polymer is 0.05%~ 0.5%, depends on the substrates, processing conditions, application conditions, and also the specific requirements.
ECOSCINOX 626	双(2,4-二叔丁基苯基)季戊四醇二亚磷酸酯 Bis(2,4-di-t-butylphenyl) Pentaerythritol Diphosphite	26741-53-7		外观: 白色粉末 熔点: 170.0-180.0° C 磷含量: 10.0-10.3% 游离 2,4-二叔丁基苯酚: ≤1.0% 三异丙醇胺含量: 0.5-1.0% 酸度: ≤1.0mgKOH/g 粒径分布: 10% > 60 目 50% < 200 目 Appearance: White Powder Melt Point: 170-180°C Phosphorous Content: 10.0-10.3% Free 2, 4-di-t-butylphenol: ≤1.0% Triisopropanolamine Content: 0.5-1.0% Acid: ≤1.0mgKOH/g Particle Size Distribution: 10% > 60mesh 50% < 200mesh	626 抗氧化剂是一种高性能的有机亚磷酸酯抗氧化剂, 可有效防止聚合物变色, 降低聚合物降解速率, 提高树脂的抗气体褪色性能。626 抗氧化剂可广泛用于聚乙烯、聚丙烯、乙烯-醋酸乙烯酯共聚物、聚苯乙烯、聚酯、聚氯乙烯以及其他热塑性塑料和弹性体的加工过程中, 可显著提高材料的加工稳定性。 626 antioxidant is a high-performance organic phosphite antioxidant that effectively prevents polymer discoloration, reduces polymer degradation rate, and improves the anti-gas fading performance of resin. 626 antioxidants can be widely used in the processing of polyethylene, polypropylene, ethylene-vinyl acetate copolymers, polystyrene, polyester, polyvinyl chloride and other thermoplastics and elastomers, which can significantly improve the processing stability of materials.

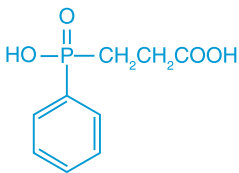
硫醚类抗氧化剂 Thioether Antioxidant

产品代号 Trade Name	化学名称 Chemical Name	CAS 号 CAS No.	结构式 Structural Formula	规格指标 Specification	适用领域及用量 Application
ECOSCINOX DLTDP	硫代二丙酸双十二醇酯 Dilauryl thiodipropionate	123-28-4		外观：白色结晶粉末 结晶点：39.5-41.5° C 铁含量：≤3ppm 加热减量：≤0.05% 灰分：≤0.01% 酸值：≤0.05mgKOH/g Appearance: White crystalline powder Crystallizing point: 39.5-41.5°C Iron: ≤3ppm Heating: ≤0.05% Ash content: ≤0.01% Acid value: ≤0.05mgKOH/g	辅助抗氧化剂，广泛用于聚丙烯、聚乙烯、聚氯乙烯、ABS 等合成材料中，也可用于橡胶加工和润滑油中。可与其他抗氧化剂和紫外线吸收剂配合使用，产生协同效应，改善制品的加工性能，延长制品的使用寿命。 DLTDP is a good auxiliary antioxidant and is widely used in polypropylene, polyethylene, polyvinyl chloride, ABS rubber and lubricating oil. It can be used in combination with phenolic antioxidants to produce synergistic effect, and to prolong the life of the final products.
ECOSCINOX DSTDP	硫代二丙酸二硬脂醇酯 Distearyl thiodipropionate	693-36-7		外观：白色结晶粉末 结晶点：63.5-68.5° C 皂化值：160-170mgKOH/g 加热减量：≤0.05% 灰分：≤0.01% 酸值：≤0.05mgKOH/g Appearance: White crystalline powder Crystallizing point: 63.5-68.5°C Saponificating value: 160-170mgKOH/g Heating: ≤0.05% Ash content: ≤0.01% Acid value: ≤0.05mgKOH/g	优良的辅助抗氧化剂，广泛用于聚乙烯、聚丙烯、聚氯乙烯、ABS、橡胶和润滑油脂中。本品熔点高，挥发性低，可与酚类抗氧化剂、紫外线吸收剂产生协同效应。 DSTDP is a good auxiliary antioxidant and is widely used in polypropylene, polyethylene, polyvinyl chloride, ABS rubber and lubricating oil. It has high-melting and low- volatility. It can be used in combination with phenolic antioxidants and ultraviolet absorbers to produce synergistic effect.

苯基磷中间体 Phenyl phosphorus intermediate

产品代号 Trade Name	化学名称 Chemical Name	CAS 号 CAS No.	结构式 Structural Formula	规格指标 Specification	适用领域及用量 Application
BPA	苯基膦酸 Benzene Phosphinic Acid	1779-48-2		外观：白色晶体或粉末 总含量：≥99.0% 熔点：83°C -87°C 水不溶物：≤120ppm 氯化物：≤350ppm 水溶性：7.7g/100ml water(25°C) 可溶于醇和酮。不溶于己烷和四氯化碳 Appearance: White crystal or powder Content : ≥99.0% Melting Point: 83°C -87°C Water insoluble: ≤120ppm Chloride: ≤350ppm Solubility in water: 7.7g/100ml water(25°C) Soluble in alcohol and ketones. Insoluble in hexane and carbon tetrachloride	强还原剂，可与硝酸或过氧化氢等氧化剂快速放热反应。 聚酰胺的颜色稳定剂（受阻酚无效）和改性剂、抗氧化剂、形成用作稳定剂的金属盐的中间体、有机过氧化物催化剂的促进剂、乳液聚合中的自由基促进剂和聚硅氧烷树脂的改进剂。 BPA is a strong reducing agent and reacts rapidly and exothermically with oxidizing agents such as nitric acid or hydrogen peroxide. A color stabilizer (where hindered phenols are not effective) and modifying agent for polyamides, an antioxidant, an intermediate for forming metallic salts used as stabilizers, and accelerator for organic peroxide catalysts, a free radical promoter in emulsion polymerization, and an improver of polysiloxane resins.
BPD	苯基二氯膦 Dichlorophenylphosphine	644-97-3		外观：无色或淡黄色透明液体 气味：刺鼻气味 - 刺激性气味 总含量：≥99.0% 碳酸二丙酯：≤0.2% 苯基磷酰二氯：≤0.2% 三氯化磷：≤0.3% 色泽：≤50 Appearance: Colorless or light yellow transparent liquid Odor: Acrid odor - pungent odor Content: ≥99.0% DPC: ≤0.2% BPOD: ≤0.2% PCI3: ≤0.3% Color: ≤50	BPD 为无色透明液体。在空气中冒烟。BPD 用水很快水解形成苯基膦酸和苯基膦。两个活性氯原子能够与醇、酚和胺反应形成相应的中性酯。BPD 及其衍生物用作中间体，用于制造增塑剂、抗氧化剂、稳定剂、农药、催化剂和高压润滑剂添加剂等。 BPD is clear colorless liquid. It fumes in the air. BPD hydrolyzes very rapidly with water to form phenylphosphinic acid and phenylphosphine. The two reactive chlorine atoms are capable of reacting with alcohols, phenols, and amines to form the corresponding neutral esters. BPD and its derivatives are used as an intermediate to make plasticizers, antioxidants, stabilizers, pesticides, catalysts and high pressure lubricant additives, etc.
DPC	二苯基氯膦；二苯基氯化亚膦；二苯基氯化磷；二苯基氯膦 Diphenyl Chlorophosphine; Diphenyl Phosphinoyl Chloride; Diphenyl phosphine chloride; Diphenylchlorophosphine	1079-66-9		外观：浅黄色无色或浅黄色透明液体 总含量：≥99.0% 气味：刺鼻气味 - 刺激性气味 比重：1.18-1.20g/mL@25°C Appearance: Colorless or light yellow transparent liquid Odor: Acrid odor - pungent odor Content: ≥99.0% Specific Gravity: 1.18-1.20g/mL@25°C	DPC 是无色透明的液体。它在空气中冒烟。DPC 用水很快水解形成二苯基氧化膦。活性氯原子能够与醇、酚和胺反应形成相应的中性酯。氯二苯基膦用作中间体，用于制造抗氧化剂、阻燃剂、稳定剂、农药、催化剂、光引发剂和荧光增白剂。它用作将醇转化为卤化物的卤化试剂。它用于制备将醇转化为卤代烷的固相试剂。 DPC is clear colorless liquid. It fumes in the air. DPC hydrolyzes very rapidly with water to form Diphenylphosphine oxide. The reactive chlorine atom is capable of reacting with alcohols, phenols, and amines to form the corresponding neutral esters. For permanent flame retardant PET, CEPPA can be added directly or after pre-esterification with EG during the PET synthesis procedures. During the condensation polymerization procedure, the reaction time and pressure should be adjusted to get the appreciated viscosity and melting point of PET. The CEPPA should be added according to the required flame retardant properties. For polyester paint. CEPPA can be used after esterification with EG.

磷系无卤阻燃剂 Phosphorus series halogen-free flame retardant

产品代号 Trade Name	化学名称 Chemical Name	CAS 号 CAS No.	结构式 Structural Formula	规格指标 Specification	适用领域及用量 Application
CEPPA	2-羧乙基苯基磷酸 2-Carboxyethylphenylphosphinic acid	14657-64-8	 <chem>OC(=O)CCc1ccccc1P(=O)(O)O</chem>	外观：白色晶体或粉末 总含量：≥99.0% 磷含量：≥14.0% 酸值：522.0±4.0mgKOH/g 熔点：158°C -161°C 氯化物：≤50ppm 湿度：≤0.05% 透光率：300nm≥93.0% 450nm≥98.0% Appearance: White crystal or powder Content: ≥99.0% Phosphorus Content ≥14.0% Acid Value: 522.0±4.0mgKOH/g Melting Point: 158°C -161°C Chloride: ≤50ppm Moisture: ≤0.05% Transmittance: 300nm≥93.0% 450nm≥98.0%	对于永久性阻燃 PET，CEPPA 可以直接添加，也可以在 PET 合成过程中与 EG 预酯化后添加。在缩聚过程中，应调节反应时间和压力，以达到 PET 的粘度和熔点。CEPPA 应根据所需的阻燃性能添加。用于聚酯漆。CEPPA 可在与 EG 酯化后使用。 For permanent flame retardant PET, CEPPA can be added directly or after pre-esterification with EG during the PET synthesize procedures. During the condensation polymerization procedure, the reaction time and pressure should be adjusted to get the appreciated viscosity and melting point of PET. The CEPPA should be added according to the required flame retardant properties. For polyester paint. CEPPA can be used after esterification with EG.

富比亚化学产品手册2023版

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