
ADK STAB

Polymer Additives

Product List



POLYMER ADDITIVES R&D LABORATORY



MIE PLANT (ISO 9001, ISO 14001 and OHSAS 18001 factory)



ADK STAB

Polymer additives

Polymer additives are one of the essential materials for polyolefins and polyvinyl chloride to give longer life and special properties.

Based on over 60 years of experience and knowledge, ADEKA offers the best solution for you to meet your demands.

The products in this brochure are just a part of our portfolio. For more details, technical data or any other requests, please feel free to contact us.

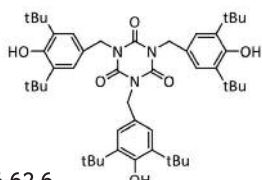
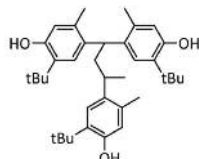

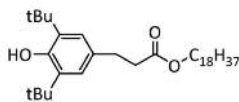
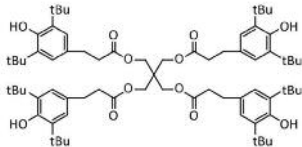
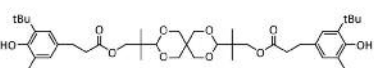
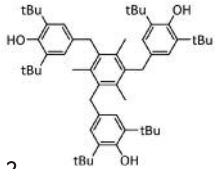
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ADK STAB HINDERED PHENOL ANTIOXIDANTS

Hindered phenols are radical scavengers which prevent thermal degradation of many organics and polymeric materials. Showing synergistic effect when used with phosphites, thioethers and light stabilizers.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
AO-20	 27676-62-6	White powder M.P.220~222°C M.W.784	<ul style="list-style-type: none"> • Excellent resistance to discoloration • Low volatility and excellent retention in the resin 	Approved Approved Approved 20kgB/G
AO-30	 1843-03-4	White powder M.P.183~185°C M.W.545	<ul style="list-style-type: none"> • Highly efficient radical scavenger due to sterically-less-hindered structure • Excellent resistance to extraction • For polymers which contain unsaturated bonds such as ABS and elastomers 	Approved Approved Approved 20kgB/G
AO-40	 85-60-9	White powder M.P.210~214°C M.W.383	<ul style="list-style-type: none"> • Highly efficient radical scavenger due to sterically-less-hindered structure • Good compatibility with many polymers • For polymers which contain unsaturated bonds such as ABS and elastomers 	Approved — Approved 20kgB/G
AO-50 AO-50F AO-50T	 2082-79-3	White powder (F: White flake) (T: White granule) M.P.51~54°C M.W.531	<ul style="list-style-type: none"> • Excellent compatibility with many polymers • Excellent resistance to discoloration 	Approved Approved Approved 20kgB/G
AO-60 AO-60G	 6683-19-8	White powder (G: granule) M.P.110~130°C M.W.1,178	<ul style="list-style-type: none"> • Very low volatility and excellent resistance to extraction due to high M.W. • Excellent processing and long-term heat stabilization 	Approved Approved Approved 20kgB/G
AO-80	 90498-90-1	White powder M.P.110~120°C M.W.741	<ul style="list-style-type: none"> • Highly efficient radical scavenger • Exceptional processing and long-term heat stabilization • Excellent resistance to discoloration, particularly against NOx gas 	Approved Approved Approved 20kgB/G
AO-330	 1709-70-2	White powder M.P.243~245°C M.W.775	<ul style="list-style-type: none"> • Low volatility • Excellent resistance to extraction from the polymer, particularly in hot water 	Approved Approved Approved 20kgB/G

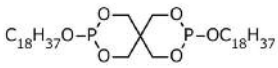
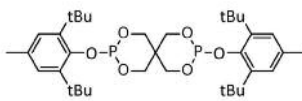
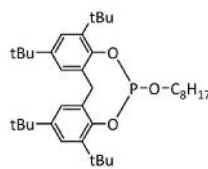
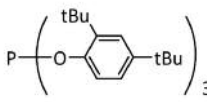
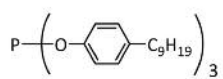
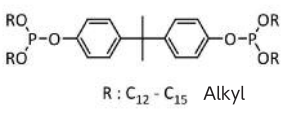
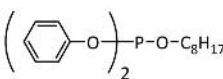
*Food contact approval : For detail information, please contact us.

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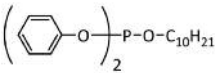
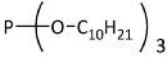
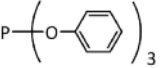
ADK STAB PHOSPHITE ANTIOXIDANTS

Phosphites are excellent peroxide decomposers, halogen acceptors and masking agents.

Phosphites provide good heat stability, color stability, process stability and weatherability to polymers.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
PEP-8	 3806-34-6	White flake Softening point 50~62°C M.W.733	<ul style="list-style-type: none"> Reduces discoloration effectively during processing For resins which are easy to discolor 	Approved – Approved 15kgC/S
PEP-36	 80693-00-1	White powder M.P.234~240°C M.W.633	<ul style="list-style-type: none"> Exceptional process stability Reduces discoloration effectively during processing For resins which need high-temperature processing and/or severe color stability 	Approved Approved Approved 20kgB/G
HP-10	 126050-54-2	White powder M.P.146~152°C M.W.583	<ul style="list-style-type: none"> Excellent process stability Excellent compatibility with low-polar polymers such as PE and elastomers 	Approved – Approved 15kgC/S
2112 2112RG	 31570-04-4	White powder (RG: granule) M.P.180~190°C M.W.647	<ul style="list-style-type: none"> Generic phosphite with the highest resistance to hydrolysis among commercial phosphites 	Approved Approved Approved 20kgB/G
1178	 26523-78-4	Clear liquid Vis.4,000mPa·s M.W.689	<ul style="list-style-type: none"> Highly cost-effective liquid phosphite For PS, ABS, PVC, elastomers, etc 	– – – 200kgD/M
1500	 96152-48-6	Clear liquid Vis.1,200mPa·s M.W.approx. 1,112	<ul style="list-style-type: none"> Higher heat stability and resistance to hydrolysis than ADK STAB 1178 	Approved – – 190kgD/M
C	 15647-08-2	Clear liquid Vis.10mPa·s M.W.346	<ul style="list-style-type: none"> Generic alkylarylphosphite For PS, elastomers, etc 	– – – 200kgD/M

*Food contact approval : For detail information, please contact us.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
135A	 26544-23-0	Clear liquid Vis.15mPa·s M.W.375	<ul style="list-style-type: none"> • Generic alkylarylphosphite • For PS, elastomers, etc 	– – – ----- 200kgD/M
3010	 25448-25-3	Clear liquid Vis.20mPa·s M.W.503	<ul style="list-style-type: none"> • Trialkylphosphite • Resistance to discoloration during/after processing • For resins which require high-temperature processing 	– – – ----- 180kgD/M
TPP	 101-02-0	Clear liquid Vis.18mPa·s M.W.310	<ul style="list-style-type: none"> • Generic arylphosphite • Resistance to discoloration during/after processing • For PS, PU, elastomers, etc 	– – – ----- 200kgD/M

● Usage note

Phosphite are easy to be hydrolyzed when exposed to humidity.
Please store in the original container securely under cool and dry conditions.
After opening, please use immediately.

3 ADK STAB BLEND TYPE ANTIOXIDANTS

Blended type AO is consisted from phenols and phosphites. Easy to use and offer high performance. The blend ratio is able to be arranged to meet specific requirements.

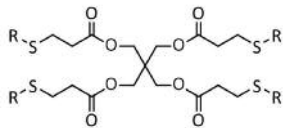
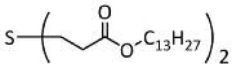
ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
A-611 A-611RG	AO-60/2112=1/1	White powder (RG: granule)	• Mixture of ADK STAB AO-60 and ADK STAB 2112	Approved Approved Approved ----- 20kgB/G
A-612 A-612RG	AO-60/2112=1/2	White powder (RG: granule)	• Protects polymers effectively against thermal degradation during/after processing	Approved Approved Approved ----- 20kgB/G
A-613 A-613RG	AO-60/2112=1/3	White powder (RG: granule)	• Provides long-term heat stabilization for the life time of the article due to the synergistic effect of phenolic antioxidant and phosphite	Approved Approved Approved ----- 20kgB/G
A-512RG	AO-50/2112=1/2	White granule	<ul style="list-style-type: none"> • Mixture of ADK STAB AO-50 and ADK STAB 2112 • Protects polymers effectively against thermal degradation during / after processing 	Approved Approved Approved ----- 20kgB/G
AO-18	Blend	White powder M.P.>210°C	• Provides long-term heat stabilization for filled/cross-linked polyolefins	Approved – – ----- 12kgC/S

*Food contact approval : For detail information, please contact us.

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ADK STAB THIOETHER ANTIOXIDANTS

Thioethers decompose polymer peroxide to inert substance. Particularly, thioethers exhibit remarkable synergistic effect in combination with hindered phenols.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
AO-412S	 29598-76-3 R : C ₁₂ alkyl	White powder M.P.46~52°C M.W.1,162	<ul style="list-style-type: none"> • Excellent long-term heat stability compared to DLTDP or DSTDP • Very low volatility • Excellent resistance to extraction 	Approved
				10kgC/S
AO-503	 10595-72-9	Clear liquid Vis.70~75mPa·s M.W.543	<ul style="list-style-type: none"> • Liquid type • Good dispersibility/solubility in adhesives, coatings, latexes, etc 	—
				16kgC/N
AO-26	Blend	Brown liquid Vis.5,000mPa·s	<ul style="list-style-type: none"> • Excellent long-term heat stability • Low interference with crosslinking agent • For cross-rinked PE and adhesives, etc 	—
				17kgC/N

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ADK STAB PERMANENT ANTISTATIC AGENT

Permanent antistatic agents form a conductive pathway in the surface layer of base resins and dissipate the electric charges along the polymer backbone. It provides an immediate long-lasting antistatic effect. Moreover, the effect is largely independent of relative humidity. Permanent antistatic agents can be applied for anti-dust and ESD applications.

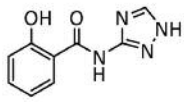
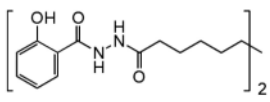
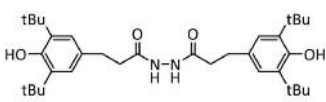
ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
AS-300 series	Blend	Pale yellow pellet M.P.85~100°C	<ul style="list-style-type: none"> • Can be readily used finished products by extrusion and injection molding • Suitable for Polyolefins, Polyesters, stylenic copolymers such as ABS, PC/ABS and HIPS 	—
				Approved

*Food contact approval : For detail information, please contact us.

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ADK STAB METAL DEACTIVATORS

Metal deactivators prevent oxidative degradation caused by copper or other metal by chelating them. Suitable for wire and cable application.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
CDA-1	 36411-52-6	White powder M.P.315~325°C M.W.204		— — — 10kgC/S
CDA-1M	Blend 36411-52-6 (main component)	White powder M.P.>214°C	• Excellent metal deactivator • None discoloration • For Polyolefins, ABS & Others	— — — 10kgC/S
CDA-6S	 63245-38-5	White powder M.P.211~217°C M.W.498		— — — 10kgC/S
CDA-10	 32687-78-8	White powder M.P.224~229°C M.W.553	• Low cost conventional type • For Polyolefins, ABS & Others	Approved Approved — 20kgB/G

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ADK STAB ADDITIVES FOR FILLED POLYMERS

Specialized for filled polymers. Improves heat stability and processing stability etc.

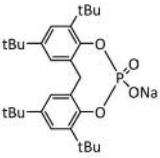
ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
ZS-27	Blend 108-78-1 (main component)	White powder M.P.>65°C	• Effective heat stabilizing metal deactivator • For filled PP	— — Approved 15kgC/S
ZS-90	Blend	White powder M.P.>110°C	• Improves compatibility with filled PP	Approved Approved Approved 15kgC/S
ZS-91	Blend	White powder M.P.>110°C	• For filled PP	Approved Approved Approved 15kgC/S

*Food contact approval : For detail information, please contact us.

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ADK STAB NUCLEATING AGENTS / CLARIFIERS

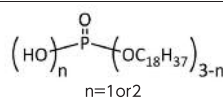
Nucleating agents give high degree of crystallinity to polymers, providing higher mechanical properties such as hardness, elasticity modulus etc, and improve optical properties such as transparency.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
NA-11	 85209-91-2	White powder M.P.>400°C M.W.508	<ul style="list-style-type: none"> Effectively improves stiffness, heat distortion temperature, crystallization temperature/rate and clarity of PP High resistance to heat and extraction Odorless 	Approved Approved Approved 10kgC/S
NA-27	Blend	White powder M.P.>230°C	<ul style="list-style-type: none"> Effectively improves stiffness, heat distortion temperature, crystallization temperature/rate and clarity of PP Better performance than NA-11, particularly in one pack granule form 	Approved Approved Approved 10kgC/S
NA-902	Blend	White powder	<ul style="list-style-type: none"> Highly cost-effective For Polyolefins 	Approved Approved Approved 10kgC/S
NA-21	Blend 151841-65-5 (main component)	White powder M.P.>210°C	<ul style="list-style-type: none"> Improves both transparency and mechanical properties effectively Superior performance, even at lower loading level, compared to conventional clarifiers 	Approved Approved Approved 10kgC/S
NA-71	Blend	White powder M.P.>210°C	<ul style="list-style-type: none"> Odorless For Polyolefins 	Approved Approved Approved 10kgC/S

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ADK STAB LUBRICANTS

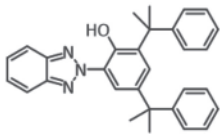
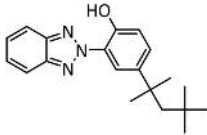
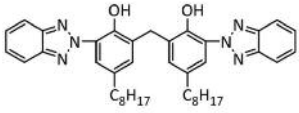
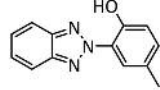
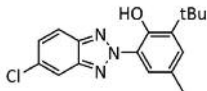
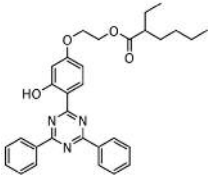
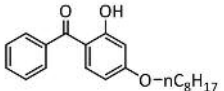
Lubricants improve internal and external fluidity of polymers during processing.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
FC-113	Blend 25767-47-9 (main component)	White powder Softening point 100~125°C	<ul style="list-style-type: none"> Excellent lubricant for FR-ABS & others 	Approved — — 15kgC/S
AX-71	 39471-52-8	Light amber flake M.P.68~75°C M.W.490	<ul style="list-style-type: none"> Excellent lubricant for EVA, TPE & Others Catalyst-deactivator for Polyesters 	— Approved — 15kgC/S

*Food contact approval : For detail information, please contact us.

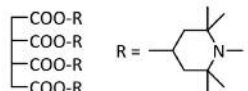
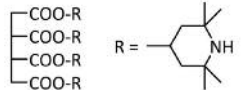
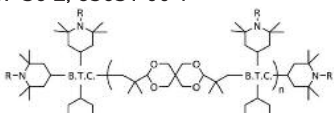
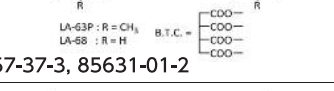
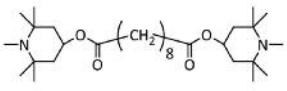
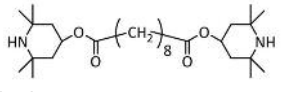
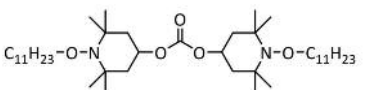
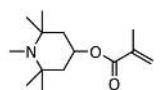
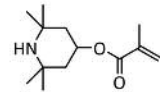
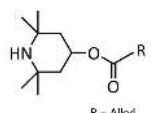
10 ADK STAB UV ABSORBERS

UV absorbers convert photochemical energy of light into harmless heat, prevent polymers from degradation. Showing excellent synergistic effect when used with HALS.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
LA-24	 70321-86-7	Pale yellow powder M.P.139~142°C M.W.447	• Excellent thermal stability and low volatility, compared to other benzotriazol-type UVAs	– – – 15kgB/G
LA-29	 3147-75-9	Pale yellow powder M.P.102~106°C M.W.323	• Less initial coloration • Low volatility • Good compatibility with many polymers	Approved – Approved 20kgB/G
LA-31RG LA-31G	 103597-45-1	Light yellow powder (G: granule) M.P.194~200°C M.W.659	• Very low volatility due to high M.W • Excellent thermal stability • Excellent long term retention in the resin • For engineering plastics requiring high processing temperatures	Approved – Approved LA-31RG : 15kgC/S LA-31G : 20kgB/G
LA-32	 2440-22-4	Pale yellow powder M.P.127~132°C M.W.225	• Strong UV absorber • Less initial coloration • For PVC, PS, PU, Acrylic resins, elastomers, etc	Approved Approved Approved 20kgB/G
LA-36 LA-36RG	 3896-11-5	Pale yellow powder (RG: granule) M.P.138~141°C M.W.315	• Common benzotriazole-type UVA • Excellent absorption in longer-wavelength UV regions, compared to other benzotriazole-type UVAs	Approved Approved Approved 20kgB/G
LA-46	 371146-04-2	Light yellow powder M.P.106~108°C M.W.512	• High absorption from 280nm to 300nm wavelength • Excellent thermal stability and discoloration resistance against heat • Low volatility	– – –
1413	 1843-05-6	Pale yellow powder M.P.47~49°C M.W.326	• Benzophenone-type UVA • Less initial coloration • High absorption in short-wavelength • Good compatibility with many polymers	Approved Approved Approved 10kgC/S

*Food contact approval : For detail information, please contact us.

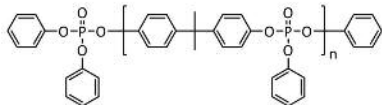
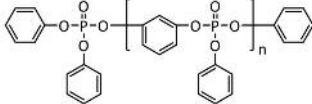
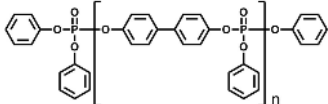
Hindered amine light stabilizers (HALS) shows excellent UV protection by scavenging radicals generated by photo degradation.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
LA-52	 91788-83-9	Pale yellow powder M.P.>65°C M.W.847	• Low basic N-CH ₃ -type HALS with high amine content • Provides excellent light/heat stability, especially to filled/pigmented polymers	— — Approved 15kgC/S
LA-57	 64022-61-3	Pale yellow powder M.P.125~135°C M.W.791	• N-H-type HALS with high amine content • Provides excellent light stability to many polymers	— — — 10kgC/S
LA-63P	 101357-36-2, 85631-00-1	Pale yellow powder M.P.85~105°C M.W. approx.2,000	• High molecular weight HALS • Very low volatility • Excellent resistance to extraction • Provides excellent light stability to thin applications, such as olefin films and engineering plastics which require high processing temperature	— — — 10kgC/S
LA-68	 101357-37-3, 85631-01-2 LA-63P: R = CH ₃ LA-68: R = H	Pale yellow powder M.P.80~110°C M.W. approx.1,900		— — — 10kgC/S
LA-72	 41556-26-7 (main component)	Light yellow liquid SG. 0.99 Vis.(20°C)400mPa·s	• Liquid HALS • Main component is N-CH ₃ -type HALS • Good dispersibility/solubility in coatings, sealants, etc	— — — 16kgC/N
LA-77Y LA-77G	 52829-07-9	White powder (G: granule) M.P.82~87°C M.W.481	• Low molecular weight N-H-type HALS • Provides excellent light stability to polymer molded articles, etc	Approved — Approved 20kgB/G
LA-81	 705257-84-7	Light yellow liquid SG 0.95 Vis. 1,600mPa·s M.W.681	• Very low basic NO-Alkyl-type HALS • Provides excellent light stability to low-polar polymers, such as polyolefins, etc • Particularly for applications exposed to acid compounds such as agrochemicals	— — — 16kgC/N
LA-82	 68548-08-3	Clear liquid Vis. 12mPa·s M.W.239	• Polymerizable HALS having metacrylate group	— — — 15kgC/N
LA-87	 31582-45-3	Pale yellow powder M.P.58~60°C M.W.225	• Copolymerizable with a variety of monomers	— — — 15kgC/S
LA-402AF	Blend 167078-06-0(main component)	Light yellow pellet Softening point>120°C	• Light stabilizer system PP masterbatch • Designed for use in pigmented polyolefins • Excellent compatibility with polyolefins • For PP/TPE automotive parts	— — — 20kgB/G
LA-502XP	Blend 91788-83-9(main component)	Light yellow pellet Softening point>120°C	• Light stabilizer system PP masterbatch • Designed for use in pigmented polyolefins • Main component is LA-52 • For PP/TPE automotive parts	— — Approved 20kgB/G
LA-40MP LA-40Si	 167078-06-0 (main component) R = Alkyl	White to pale yellow pellet (Si: Off-white powder) Softening point>120°C	• Provides excellent light stability for PP automotive parts • Excellent compatibility with polyolefins and high resistance to bloomig	— — — 20kgB/G

*Food contact approval : For detail information, please contact us.

12 ADK STAB FLAME RETARDANTS

Flame retardants give flame retardancy to plastics and make them applicable for electronic equipments parts or construction materials. Our FR products are all halogen-free and generate much less smoke.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
FP-600	 5945-33-5, 181028-79-5	Colorless viscous liquid SG(25°C) 1.26 Vis. (70°C) 120~220mPa·s	<ul style="list-style-type: none"> • Halogen-free liquid type oligomeric phosphate flame retardant for engineering plastics • Hydrolysis stability, thermal stability and low volatility 	— — — 220kgD/M
PFR	 125997-21-9	Colorless viscous liquid SG(25°C) 1.30 Vis. (25°C) 500~800mPa·s	<ul style="list-style-type: none"> • Halogen-free liquid type oligomeric phosphate flame retardant for engineering plastics • High phosphorus content and low volatility 	— — — 220kgD/M
FP-2100JC	Blend	White powder	<ul style="list-style-type: none"> • Halogen-free intumescent flame retardant for polyolefins, TPE, etc • Less effect on mechanical properties and density compared with metal hydroxides • Generates almost no smoke and CO during combustion • Higher heat stability than FP-2500S 	— — — 20kgB/G
FP-2500S	Blend	White powder	<ul style="list-style-type: none"> • Less dust type 	— — — 20kgB/G
FP-900L	 [n=1] : 60-70% 1003300-73-9	Colorless or pale yellow viscous liquid Vis. (70°C) 260-450mPa·s SG(25°C) 1.30	<ul style="list-style-type: none"> • Halogen-free and environment-friendly (bisphenol-A free) liquid type oligomeric phosphate flame retardant for engineering plastics • Excellent thermal stability and low volatility compared to FP-600 • Maintain physical and mechanical properties of polymers such as HDT compared to FP-600 	— — — 220kgD/M

● Usage note

Intumescent flame retardant could aggregate and lead to processing trouble under humid condition. Please use immediately after opening.

13 OTHERS

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
LX-803A	Blend 90498-90-1 (main component)	White suspension SG(25°C) 1.02	<ul style="list-style-type: none"> • Non-staining AO for rubber latex • Improving stain and color • For SBR latex and others 	— — — 17kgC/N
ADK CIZER Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US - FDA EU - EFSA JP - JHOSPA
				Packaging
BF-1000	Epoxidized 1,2-polybutadiene	Colorless liquid SG (30°C) 0.99 Vis. (45°C) 15,000~50,000mPa·s M.W. approx.1,000	<ul style="list-style-type: none"> • Having epoxy group and vinyl group • For Coating, Adhesives & Others 	— — Approved 17kgC/N
D-32	Epoxidized octyl stearate	Colorless liquid SG (25°C) 0.919 Vis. 52mPa·s	<ul style="list-style-type: none"> • For Polyolefins 	— — Approved 180kgD/M

*Food contact approval : For detail information, please contact us.



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TESTING INSTRUMENTS

Processing & Processability

Single screw extruder
Twin screw extruder
Injection molding machine
Thermoforming machine
Press
Calender roll
Henschel mixer
Flow tester
Plastograph
Melt indexer

Weathering & Heat Aging

Xenon weather meter
(Xenon arc lamp)
Sunshine weather meter
(Carbon arc lamp)
Super UV tester
(Metal halide lamp)
Outdoor exposure
(Shizuoka, JAPAN)
Humidity cabinet
Geer oven

Physical Properties

Stiffness tester
(Tensile, Flexural)
Impact tester
(Charpy, Izod)
Flexural Modulus & HDT
Torsion tester
(Clash-Berg)
Brittleness tester
Surface tension meter
Falling ball impact tester
Colorimeter
Contact angle meter
Haze meter
Gloss meter
Surface resistivity meter
Volume resistivity meter
THA
Capillary rheometer

Analyses

GC
HPLC
FT-IR
FT-NMR
SEM-EDX
Ultraviolet-visible Spectrophotometer
X-ray fluorescence analyzer
Mass spectrometer
ICP spectrometer
Fluorescence spectrometer
TG-DTA
DSC
Oxygen index meter
Cone Calorimeter

15 APPLICATION TABLE

ADK STAB Trade name	Polyolefins					Styrenics			Engineering Plastics							Others				
	PP	HDPE	LLDPE	LDPE	Others	HIPS	GPPS	ABS	PBT	PET	PC	POM	PPO	PA	PMMA	Sealant	PUR	PVC	Latex	Coating
AO-20	++	+						++					+	+			+	+		
AO-30	+	+						+						+	+				+	
AO-40								++				++							++	
AO-50	++	++	++	++	+	++	+	++			++					+		+	+	+
AO-60	++	++	++	++	+			+	++	+	+	+		+	+	+	++	+		+
AO-80	++	++	++	+		++		+	++	+		++		++	++	+	++		++	+
AO-330	++	++	+						++	+				+						
PEP-8	++	++	++	++		++		++	+	+	+			+	+			+		
PEP-36	++	++			+	++		++	++	++	++		++	++	++					
HP-10	++	++	++	+	+	+		++	++	+	++		+	+	+	+		+		
2112	++	++	++	+	+	+		++	+	+	++		++	+	+					+
1178	+	+	+	+		++	+	++	+	+	+		+				+	+	+	+
1500						+		++			+							+		
C						+		++			++							+		
135A						+		++			++							+		
3010													++				+	+		
TPP																	++			
A-611	++	++	++	++	+			+	+	+	+			+	+					
A-612	++	++	++	++	+			+	+	+	+			+	+					
A-613	++	++	++	++	+			+	+	+	+			+						
A-512RG	++	++	++	++	+	++	+	++			++									
AO-18	++			++					+					+						
AO-412S	++	++		++				++	+		+		+	++			+		++	
AO-503				+	+			+	+							+	+		+	+
AO-26		+	+	++	+											+	+		+	
AS-300 series	++	++	+	+	+	++		++	++	+		+		+						
CDA-1	++	++	+	++				+					+						++	
CDA-1M	++	+	+					+												
CDA-6S	++	+	++	++				++					+						++	
CDA-10	++	+	++	++				++					+						++	
ZS-27	++																			
ZS-90	++				+															
ZS-91	++				+															

++: Recommended +: Applicable

ADK STAB Trade name	Polyolefins					Styrenics			Engineering Plastics							Others				
	PP	HDPE	LLDPE	LDPE	Others	HIPS	GPPS	ABS	PBT	PET	PC	POM	PPO	PA	PMMA	Sealant	PUR	PVC	Latex	Coating
NA-11	++	++			+															
NA-27	++	++																		
NA-902	++	++																		
NA-21	++	+	+	+																
NA-71	++	+	+	+					+											
FC-113								+										+		
AX-71	+				+				++	+	++									
LA-24	+							+		+	+	+		+						
LA-29						+		+			++			+				+		
LA-31RG						+	+	+	++	++	++		+		++			+		
LA-32	+					++	++	++	+		+		+				++	++		
LA-36	++	+	+	+		+	+	++	+		+		++			+		+		+
LA-46						+	+	+	++	++	++			+		+	+	+		+
1413	+	+	+	++		+	+	+								+	+	++		+
LA-52	++	++				+		++				+	+	+	+	+				+
LA-57	++	++				+	++	++						+	+	+		+		
LA-63P	++	++	++	++		+		++	+			++	+		+	++	+	++		+
LA-68	+	+	+	++				+	++							+				
LA-72	++	++														+				+
LA-77Y	++	++				+	+	++								+				+
LA-81	+	+	++	++	+			+								++		++		+
LA-82															++					++
LA-87															++					++
LA-402AF	++				+															
LA-502XP	++				+															
LA-40MP	++				+															
FP-600						+	+	++	+	+	++		++			+	+			
PFR						+	+	++			+		++							
FP-2100JC	++	++	++	++	++															
FP-2500S	++	++	++	++	++															
FP-900L										+	++		++							
LX-803A								+											++	+

ADK CIZER Trade name	Polyolefins					Styrenics			Engineering Plastics							Others				
	PP	HDPE	LLDPE	LDPE	Others	HIPS	GPPS	ABS	PBT	PET	PC	POM	PPO	PA	PMMA	Sealant	PUR	PVC	Latex	Coating
BF-1000		+	+	+																
D-32	++	++	++	+	+															

NOTES

Review SAFETY DATA SHEET (SDS) before using ADEKA products.

The data containing in this brochure are based on specific method and typical analysis.

The data containing in this brochure may be changed without notice.

The application and the data in this brochure do not warrant final function of your application.

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