
ADK STAB

Polymer Additives

Products 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.

ADEKA GROUP

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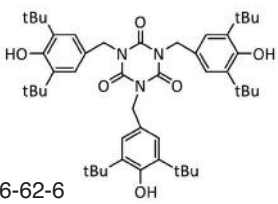
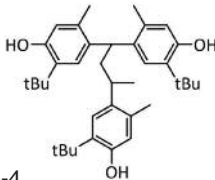
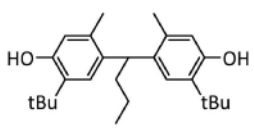
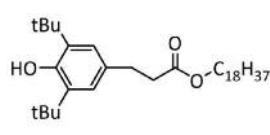
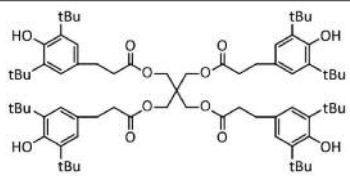
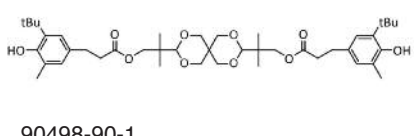
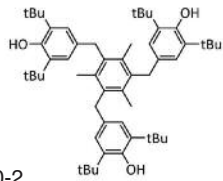
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ADK STAB HINDERED PHENOL TYPE ANTIOXIDANTS

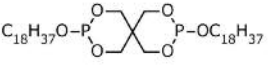
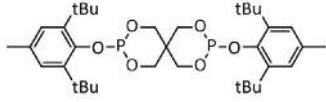
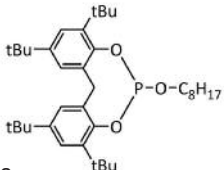
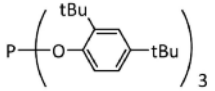
Hindered phenols are radical scavengers which prevent thermal degradation of many organics and polymeric materials. Showing synergistic effect when used with phosphites, thioethers and light stabilizers.

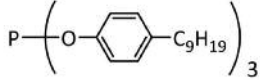
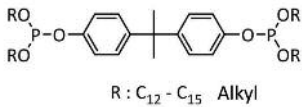
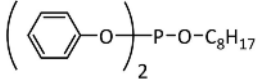
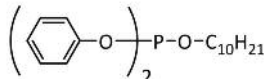
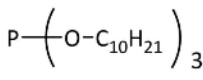
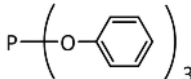
ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US EU JAPAN Packaging
AO-20	 27676-62-6	White powder M.P. 220~222 C M.W.784	<ul style="list-style-type: none"> • Excellent resistance to discoloration • Low volatility and excellent retention in the resin 	Approved Approved [B]NM-0095 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 [B]NM-0893 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 — [B]NM-1038 20kgB/G
AO-50 AO-50F	 2082-79-3	White powder (F: 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 [B]NM-0894 20kgB/G
AO-60 AO-60G	 6683-19-8	White powder (G: granule) M.P. 110~130 C M.W.1178	<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 [B]NL-0972 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 [B]NL-1309 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 [B]NL-1119 20kgB/G

* For detail information, please contact us.
JAPAN : This number is the "Resistry No." sanctioned by JHOSPA
(Japan Hygienic Olefin and Styrene Plastics Association)

ADK STAB PHOSPHITES

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 EU JAPAN Packaging
PEP-8	 C ₁₈ H ₃₇ O-P-O-C ₁₈ H ₃₇ 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
				— [B]NL-3037
				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 [B]NM-1310
				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
				— [B]NL-1428
				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 [B]NM-0846
				20kgB/G

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US EU JAPAN Packaging
1178	 26523-78-4	Clear liquid Vis. 4000mPa · s M.W.689	<ul style="list-style-type: none"> Highly cost-effective liquid phosphite For PS, ABS, PVC, elastomers, etc 	— — [B]NL-0092
				200kgD/M
1500	 96152-48-6	Clear liquid Vis. 1200mPa · s M.W.approx. 1112	<ul style="list-style-type: none"> Higher heat stability and resistance to hydrolysis than ADK STAB 1178 	Approved — [B]NL-0094
				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
135A	 26544-23-0	Clear liquid Vis. 15mPa · s M.W.374	<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.

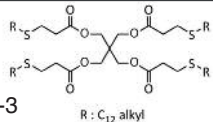
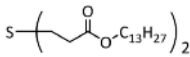
ADK STAB BLEND TYPE ANTIOXIDANTS

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 EU JAPAN 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 [B]NL-4243 20kgB/G
A-612 A-612RG	AO-60/2112=1/2	White powder (RG: granule)	• Protects polymers effectively against thermal degradation during/after processing • Provides long-term heat stabilization for the life time of the article due to the synergistic effect of phenolic antioxidant and phosphite	Approved Approved [B]NL-4244 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 [B]NL-4245 20kgB/G
A-512RG	AO-50/2112=1/2	White granule	• Mixture of ADK STAB AO-50 and ADK STAB 2112 • Protects polymers effectively against thermal degradation during / after processing	Approved Approved [B]NM-36318 20kgB/G
AO-15	Blend	White powder M.P. 206~219 C	• Provides excellent resistance to discoloration against heat and/or light and/or NOx gas • For polyolefins, rubber, PBT	Approved — [B]NM-3035 15kgC/S
AO-18	Blend	White powder M.P. \geq 210 C	• Provides long-term heat stabilization for filled/cross-linked polyolefins	Approved — — 12kgC/S

ADK STAB THIOETHERS

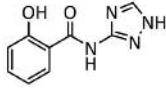
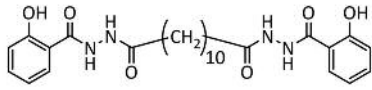
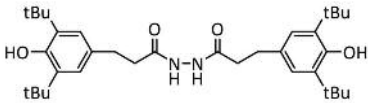
Thioethers decompose polymer peroxide to inert substance. Particularly, thioethers exhibit remarkable synergistic effect in combination with hindered phenols.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US EU JAPAN Packaging
AO-412S	 29598-76-3	White powder M.P. 46~52 C M.W. 1162	• 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. 55mPa·s M.W. 543	• Liquid type • Good dispersibility/solubility in adhesives, coatings, latexes, etc	— — — 16kgC/N

* For detail information, please contact us.
JAPAN : This number is the "Resistry No." sanctioned by JHOSPA (Japan Hygienic Olefin and Styrene Plastics Association)

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 EU JAPAN Packaging
CDA-1	 36411-52-6	White powder M.P.315~325 C M.W.204	<ul style="list-style-type: none"> •Excellent metal deactivator •Non discoloring •For Polyolefins, ABS & Others 	— — — 10kgC/S
CDA-1M	Blend 36411-52-6 (main component)	White powder M.P.≥214 C		— — — 10kgC/S
CDA-6	 63245-38-5	White powder M.P.209~215 C M.W.498		— — — 10kgC/S
CDA-10	 32687-78-8	White powder M.P.224~229 C M.W.553		<ul style="list-style-type: none"> •Low cost conventional type •For Polyolefins, ABS & Others

ADK STAB ADDITIVES FOR FILLED POLYMERS

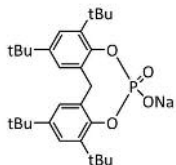
Specialized for filled polymers. Improves heat stability and processing stability etc.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US EU JAPAN Packaging
ZS-27	Blend 108-78-1 (main component)	White powder M.P.≥65 C	<ul style="list-style-type: none"> •Effective heat stabilizing metal deactivator •For filled PP 	— — [B]PM-3232 15kgC/S
ZS-90	Blend	White powder M.P.>110 C	<ul style="list-style-type: none"> •Improves compatibility with filled PP •For filled PP 	Approved Approved [B]PL-3812 15kgC/S
ZS-91	Blend	White powder M.P.>110 C		Approved Approved [B]NL-3871 15kgC/S

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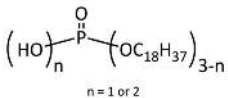
ADK STAB NUCLEATING AGENTS / CLARIFIERS

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 EU JAPAN 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 [B]NL-1174 10kgC/S
NA-27	Blend	White powder M.P. ≥ 210 °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 for 	Approved Approved [B]PL-36058 10kgC/S
NA-902	Blend	White powder M.P. ≥ 210 °C	<ul style="list-style-type: none"> Highly cost-effective For Polyolefins 	Approved Approved [B]PL-36013 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 [B]NL-4108 10kgC/S
NA-71	Blend	White powder M.P. ≥ 210 °C	<ul style="list-style-type: none"> Odorless For Polyolefins 	Approved Approved [B]PL-5290 10kgC/S

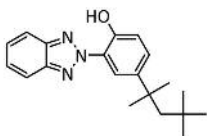
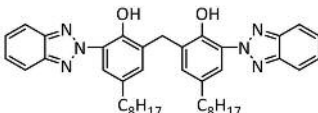
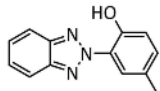
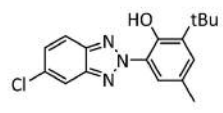
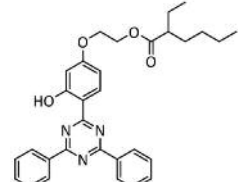
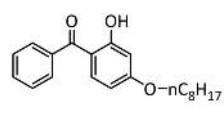
ADK STAB LUBRICANTS

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 EU JAPAN 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

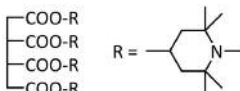
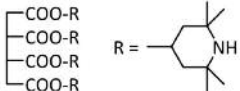
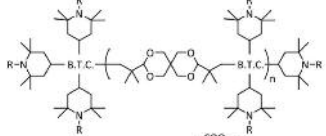

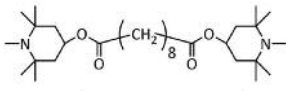
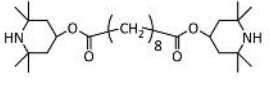
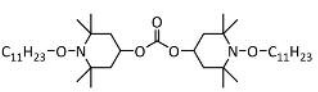
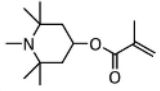
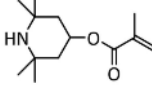
ADK STAB UV ABSORBERS

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 EU JAPAN Packaging
LA-29	 3147-75-9	Pale yellow powder M.P.102~106 C M.W.323	<ul style="list-style-type: none"> • Less initial coloration • Low volatility • Good compatibility with many polymers 	Approved
				—
LA-31RG LA-31G	 103597-45-1	Light yellow powder (G: granule) M.P.194~200 C M.W.659	<ul style="list-style-type: none"> • 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
				—
LA-32	 2440-22-4	Pale yellow powder M.P.127~132 C M.W.225	<ul style="list-style-type: none"> • Strong UV absorber • Less initial coloration • For PVC, PS, PU, Acrylic resins, elastomers, etc 	Approved
				Approved
LA-36 LA-36RG	 3896-11-5	Pale yellow powder (RG: granule) M.P.138~141 C M.W.315	<ul style="list-style-type: none"> • Common benzotriazole-type UVA • Excellent absorption in longer-wavelength UV regions, compared to other benzotriazole-type UVAs 	Approved
				Approved
LA-46	 371146-04-2	Light yellow powder M.P.106~108 C M.W.512	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Benzophenone-type UVA • Less initial coloration • High absorption in short-wavelength • Good compatibility with many polymers 	Approved
				Approved
				[B]NM-13068
				20kgB/G
				[B]NM-1672
				[B]QM-2442
				15kgC/S
				LA-31G:20kgB/G
				[B]NL-0895
				20kgB/G
				Approved
				Approved
				[B]NL-0896
				20kgB/G
				—
				—
				—
				Approved
				Approved
				[B]NM-0098
				10kgC/S

ADK STAB HINDERED AMINE LIGHT STABILIZERS

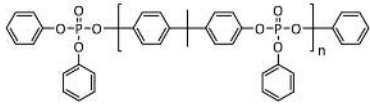
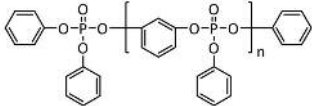
Hindered amine light stabilizers (HALS) shows excellent UV protection by scavenging radicals generated by photo degradation.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US EU JAPAN Packaging
LA-52	 91788-83-9	Pale yellow powder M.P. > 65 C M.W. 847	<ul style="list-style-type: none"> Low basic N-CH₃-type HALS with high amine content Provides excellent light/heat stability, especially to filled/pigmented polymers 	— [B]PM-2311 15kgC/S
LA-57	 64022-61-3	Pale yellow powder M.P. 125~135 C M.W. 791	<ul style="list-style-type: none"> 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 C~105 C M.W. approx. 2000	<ul style="list-style-type: none"> 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	Pale yellow powder M.P. 80 C~110 C M.W. approx. 1900	<ul style="list-style-type: none"> Provides excellent light stability to thin applications, such as olefin films and engineering plastics which require high processing temperature 	— — — 10kgC/S
LA-72	 41556-26-7 (main component)	Light yellow liquid SG. 0.99 Vis. 240mPa·s	<ul style="list-style-type: none"> Liquid HALS Main component is N-CH₃-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 C~87 C M.W. 481	<ul style="list-style-type: none"> Low molecular weight N-H-type HALS Provides excellent light stability to polymer molded articles, etc 	Approved — [B]NM-1679 20kgB/G
LA-81	 705257-84-7	Light yellow liquid SG 0.94 Vis. 1600mPa·s M.W. 681	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Polymerizable HALS having metacrylate group 	— — — 15kgC/N
LA-87	 31582-45-3	Pale yellow powder M.P. 58 C~60 C M.W. 225	<ul style="list-style-type: none"> Copolymerizable with a variety of monomers 	— — — 15kgC/S
LA-402AF	Blend 167078-06-0 (main component)	Light yellow pellet Softening ≥ 120 C	<ul style="list-style-type: none"> 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 ≥ 120 C	<ul style="list-style-type: none"> Light stabilizer system PP masterbatch Designed for use in pigmented polyolefins Main component is LA-52 For PP/TPE automotive parts 	— — [B]PM-4859 20kgB/G

* For detail information, please contact us.
JAPAN : This number is the "Resistry No." sanctioned by JHOSPA (Japan Hygienic Olefin and Styrene Plastics Association)

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 EU JAPAN Packaging
FP-600	 5945-33-5, 181028-79-5	Colorless viscous liquid Vis. >20000mPa·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 Vis. 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-2200S 	— — — 20kgB/G
FP-2200S	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 other intumescent types • Offers the highest performance in the series 	— — — 20kgB/G
FP-2500S	Blend	White powder	<ul style="list-style-type: none"> • Less dust type of FP-2200S 	— — — 20kgB/G

● Usage note

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

OTHERS

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US EU JAPAN Packaging
LX-803A	Blend	White suspension	<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*
BF-1000	Epoxidized 1,2-polybutadiene	Colorless liquid SG (30 C) 0.96 Vis. (45 C) 15000~50000mPa·s M.W. approx. 1000	<ul style="list-style-type: none"> • Having epoxy group and vinyl group • For Coating, Adhesives & Others 	— — [B]EL-2605 17kgC/N
D-32	Epoxidized octyl stearate	Colorless liquid SG (30 C) 0.915 Vis. 52mPa·s	<ul style="list-style-type: none"> • For Polyolefins 	— — [B]NL-0096 180kgD/M

* For detail information, please contact us.
JAPAN : This number is the "Resistry No." sanctioned by JHOSPA (Japan Hygienic Olefin and Styrene Plastics Association)



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TESTING INSTRUMENTS

Processing & Processability

Single screw extruder
Twin screw extruder
Injection molding 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)
Dew panel weather meter
(fluorescent lamp)
Super UV tester
(metal halide lamp)
Outdoor exposure
(Shizuoka, JAPAN)
Humidity cabinet
Geer oven

Physical Properties

Tensile tester
Stiffness tester
(Charpy, Izod, tensile)
Torsion tester
(Clash-Berg)
Brittleness tester
Surface tension meter
Falling ball impact tester
Colorimeter
Contact angle meter
Haze meter
Gloss meter
Color meter
Surface resistivity meter
Volume resistivity meter

Analyses

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

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																	■			
AO-412S	■	■		■				■	■		■		■	■			■		■	
AO-503				■	■			■	■							■	■		■	
A-611	■	■	■	■	■			■			■			■	■					
A-612	■	■	■	■	■			■			■			■	■					
A-613	■	■	■	■	■			■			■			■						
A-512RG	■	■	■	■	■	■	■	■	■	■	■									
AO-15	■	■						■	■					■						
AO-18	■			■					■					■						
CDA-1	■	■	■	■				■					■						■	
CDA-1M	■	■	■					■												
CDA-6	■	■	■	■				■					■						■	
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-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	■				■															
FP-600						■	■	■	■	■	■		■			■	■			
PFR						■	■	■			■		■							
FP-2100JC	■	■	■	■	■															
FP-2200S	■	■	■	■	■															
FP-2500S	■	■	■	■	■															
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 use.

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

The data shown 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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※Please feel free to contact our R&D or sales section for more detail.

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