
ADK STAB

Polymer Additives

Products List



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



POLYMER ADDITIVES R&D LABORATORY



ADK STAB

POLYMER ADDITIVES

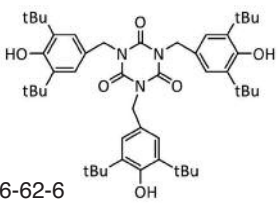
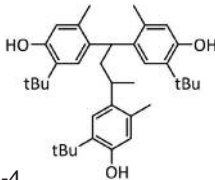
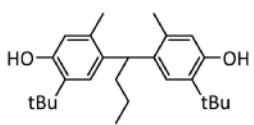
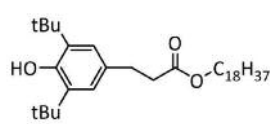
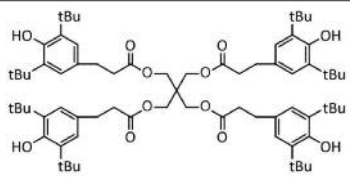
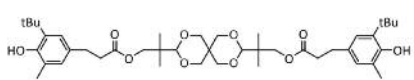
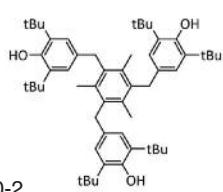
ADK STAB POLYMER ADDITIVES listed in this brochure are our main products which are the result of our experience and knowledge from over 30 years in various polymer fields. An additive should be selected depending on the target polymer and application. An appropriate selection of additives will modify various characteristics of the polymer (such as mechanical properties, durability, and transparency) and shall answer to your demands.

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ADK STAB HINDERED PHENOLS

Hindered phenols are radical scavengers which prevent thermal degradation of many organics and polymeric materials. Its effectiveness increases in combination with phosphites, thioethers and light stabilizers.

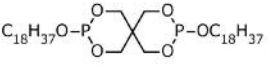

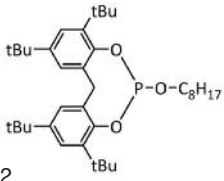
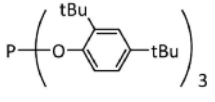
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				US EU JAPAN Packaging
AO-20	 27676-62-6	White powder M.P. 220~222 C M.W.784	<ul style="list-style-type: none"> • Excellent resistance to discoloration • Low volatility and excellent retention within the polymer 	Approved
				Approved [B]NM-0095 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

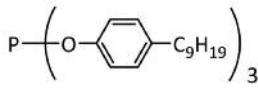
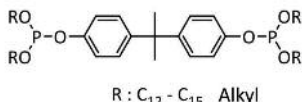
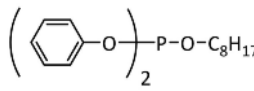
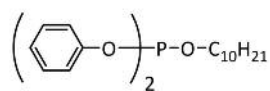
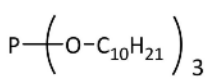
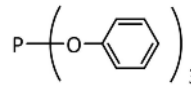
* For detail information, please contact us.

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	 3806-34-6	White flake Softening point 50~62 C M.W.733	<ul style="list-style-type: none"> Effectively reduces discoloration during processing For use in applications which require reduced discoloration 	Approved — [B]NL-3037
				15kgC/S
PEP-36A	 80693-00-1	White powder M.P.234~240 C M.W.633	<ul style="list-style-type: none"> Exceptional process stability Effectively reduces discoloration during processing For use in applications which require high-temperature processing and/or reduced discoloration 	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"> Very common 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"> • Low-cost liquid phosphite which is called Tris(nonylphenyl)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"> • Very common alkylarylphosphite • For PS, elastomers, etc 	— — —
				200kgD/M
135A	 26544-23-0	Clear liquid Vis. 15mPa·s M.W.374		— — —
				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 use in applications 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"> • Very common arylphosphite • Resistance to discoloration during/after processing • For PS, PU, elastomers, etc 	— — —
				200kgD/M

● Usage note

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

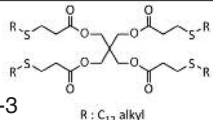
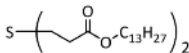
ADK STAB BLEND TYPE ANTIOXIDANTS

ADK STAB A-series is the development of speciality blends of phenolic antioxidants and phosphites for the polymer industry and it could be used in a wide variety of applications. The ratio of phenolic antioxidants and phosphites can be tailored to meet specific requirement.

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)	• Effectively protects polymers 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)		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 • Effectively protects polymers 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. ≥210 °C	• Provides long-term heat stabilization for filled/cross-linked polyolefins	Approved — — 12kgC/S

ADK STAB THIOETHERS

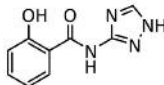
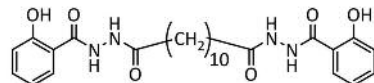
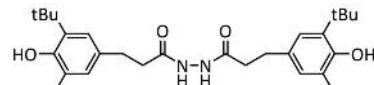
Thioethers decompose polymer peroxide to inert substance. Particularly, thioethers exhibit remarkable synergism in combination with hindered phenols.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US EU JAPAN Packaging
AO-412S	 29598-76-3 R : C ₁₂ alkyl	White powder M.P. 46~52 °C M.W. 1162	• Exceptional long-term heat stability compared to DLTD 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 form • Good dispersibility/solubility in adhesives, coatings, latexes, etc	— — — 16kgC/N

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ADK STAB METAL DEACTIVATORS

Metal deactivators prevent oxidative degradation caused by copper or other metal catalysts.

ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*	
				US EU JAPAN Packaging	
CDA-1	<div></div> <div>36411-52-6</div>	White powder M.P.315~325 C M.W.204	<div>• Excellent metal deactivator</div> <div>• Non discoloring</div> <div>• For Polyolefins, ABS & Others</div>	— — — 10kgC/S	
	CDA-1M	Blend 36411-52-6 (main component)		White powder M.P.≥214 C	— — — 10kgC/S
CDA-6		<div></div> <div>63245-38-5</div>		White powder M.P.209~215 C M.W.498	— — — 10kgC/S
	CDA-10	<div></div> <div>32687-78-8</div>		White powder M.P.224~229 C M.W.553	<div>• Low cost conventional type</div> <div>• For Polyolefins, ABS & Others</div>

ADK STAB ADDITIVES FOR FILLED POLYMERS

This series of additives are specialized for filled polymers.

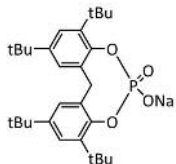
ADK STAB Trade name	Chemical structure CAS-No.	Properties	Features and applications	Food contact approval*
				US EU JAPAN Packaging
ZS-27	Blend 108-78-1 (main component)	White powder M.P.≥65 C	<ul style="list-style-type: none"> • Effective heat stabilizing metal deactivator • For filled PP 	—
				[B]PM-3232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

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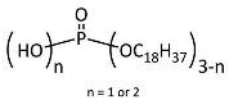
ADK STAB NUCLEATING AGENTS / CLARIFIERS

Nucleating agents give high degree of crystallinity to polymer resulting in increased 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. $\geq 400^{\circ}\text{C}$ 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. $\geq 210^{\circ}\text{C}$	<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. $\geq 210^{\circ}\text{C}$	<ul style="list-style-type: none"> Low cost conventional type For Polyolefins 	Approved Approved [B]PL-36013
				10kgC/S
NA-21	Blend 151841-65-5 (main component)	White powder M.P. $\geq 210^{\circ}\text{C}$	<ul style="list-style-type: none"> Effectively improves both transparency and mechanical properties 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. $\geq 210^{\circ}\text{C}$	<ul style="list-style-type: none"> Odorless For Polyolefins 	Approved Approved [B]PL-5290
				10kgC/S
NA-05	Nitrogen-containing compound	White powder M.P. $\geq 350^{\circ}\text{C}$	<ul style="list-style-type: none"> Designed for Polyester, in particular PET Enhances crystallization rate, resulting in reduced processing cycle time and enhanced productivity Improves mechanical properties, gas barrier properties, gloss and warpage/shrinkage 	Approved Approved [B]NL-13643
				20kgB/G

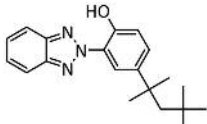
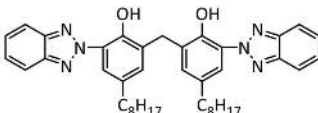
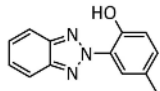
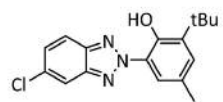
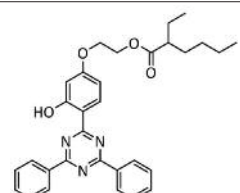
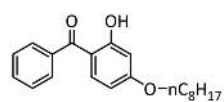
ADK STAB LUBRICANTS

Lubricants will reduce wear and friction between polymer and other material 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 plastics processing 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

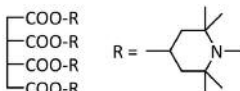
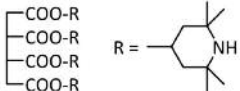
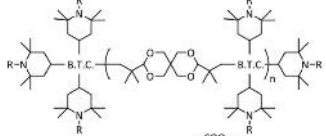
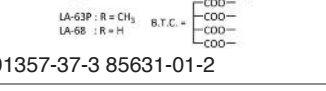
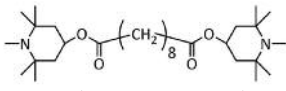
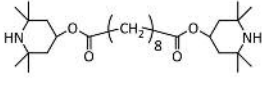
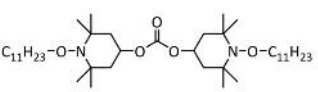
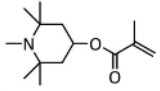
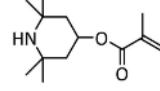
ADK STAB UV ABSORBERS

UV absorbers convert photochemical energy of light into harmless heat.

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"> • Low color contribution • Low volatility • Good compatibility with many polymers 	Approved — [B]NM-13068
				20kgB/G
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 retention within the polymer • For engineering plastics requiring high processing temperatures 	Approved — [B]NM-1672 [B]QM-2442
				15kgC/S LA-31G:20kgB/G
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 • Low color contribution • For PVC, PS, PU, Acrylic resins, elastomers, etc 	Approved Approved [B]NL-0895
				20kgB/G
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 [B]NL-0896
				20kgB/G
LA-46	 371146-04-2	Light yellow powder M.P.106~108 C M.W.512	<ul style="list-style-type: none"> • High absorption between 280nm and 300nm UV regions • 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 • Low color contribution • High absorption in short-wavelength UV regions • Good compatibility with many polymers 	Approved Approved [B]NM-0098
				10kgC/S

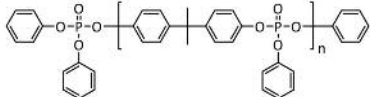
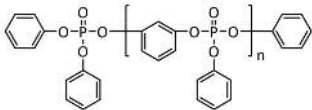
ADK STAB HINDERED AMINE LIGHT STABILIZERS

Hindered amine light stabilizers (HALSs) show 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 effective 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 effective 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		— — — 10kgC/S
LA-72	 41556-26-7 (main component)	Light yellow liquid SG. 0.99 Vis. 240mPa·s	<ul style="list-style-type: none"> Conventional 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"> Conventional 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 Copolymerizable with a variety of monomers 	— — — 15kgC/N
LA-87	 31582-45-3	Pale yellow powder M.P. 58 °C~60 °C M.W. 225		— — — 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

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 oligomeric phosphate flame retardant for engineering plastics • Excellent 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 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 Brominated-FR, ATH and MDH-type 	— — — 20kgB/G
FP-2200	Blend	White powder	<ul style="list-style-type: none"> • Smoke & CO suppression level is same as ATH or MDH-type flame retardant • Combination with HALS is acceptable 	— — — 20kgB/G
FP-2200S	Blend	White powder	<ul style="list-style-type: none"> • Halogen-free intumescent flame retardant for polyolefins, TPE, etc • The most suitable for Wire & Cable application and can keep an excellent surface of jacketing 	— — — 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"> • This structure has 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"> • Capture of catalyst residues in polymers • 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)



NETWORK & TESTING INSTRUMENTS



JAPAN

HEAD OFFICE

7-2-35, Higashi-ogu, Arakawa-ku Tokyo
116-8554, JAPAN
Phone:81-3-4455-2845

POLYMER ADDITIVES R&D LABORATORY

5-2-13, Shirahata, Minami-ku Saitama-shi,
Saitama 336-0022, JAPAN
Phone:81-48-838-2222

MIE PLANT

3707-1, Yamada, Touin-cho, Inabe-gun,
Mie 511-0251, JAPAN
Phone:81-594-76-2330

OVERSEAS

ADEKA KOREA CORP.

(Sogong-dong, Seoul Center Bldg), 301, 116, Sogong-ro, Jung-gu Seoul, 100-070, KOREA
Phone:82-2-726-0600 Fax:82-2-753-8069

ADEKA (SHANGHAI) CO., LTD.

Rm.1006-1010, 10F METRO PLAZA, No.555 Loushanguan Road, Shanghai 200051, CHINA
Phone:86-21-6229-6622 Fax:86-21-6228-7290

ADEKA FINE CHEMICAL (SHANGHAI) CO., LTD.

228 Banqiao East Road, Shanyang Town, Jinshan District, Shanghai 201508, CHINA
Phone:86-21-5724-5988 Fax:86-21-5724-5829

ADEKA FINE CHEMICAL (CHANGSHU) CO., LTD.

No.101, Changchun RD., Riverside Industrial Park, Changshu Economic Development
Zone, Jiangsu 215537, CHINA
Phone:86-512-5264-8000 Fax:86-512-5264-6575

CHANG CHIANG CHEMICAL (SHANGHAI) CO., LTD.

Room 708, Lotus Plaza, Tower 1, No.7866, Humin Road, Shanghai, China 201102
Phone:86-21-6428-4415 Fax:86-21-6428-4417

CHANG CHIANG CHEMICAL CO., LTD.

No.301 8F, Songkang Road, Taipei 10477 TAIWAN R.O.C
Phone:886-2-2509-7431 Fax:886-2-2509-7433

ADEKA FINE CHEMICAL (THAILAND) CO., LTD.

Eastern Seaboard Industrial Estate (Rayong), 300/12 Moo 1, Tambon Tasit,
Amphur Pluak Daeng, Rayong, 21140, THAILAND
Phone:66-3-895-9032 Fax:66-3-895-9036

ADEKA (ASIA) PTE. LTD.

213 Pandan Loop, SINGAPORE 128404
Phone:65-6776-8809 Fax:65-6778-5731

ADEKA INDIA PVT. LTD.

Unit 206 & 207, B-Wing, Dynasty Business Park, Andheri-Kurla Road, Andheri East, Mumbai-
400059, INDIA
Phone:91-22-4026-3301 Fax:91-22-4026-3306

ADEKA AL GHURAIR ADDITIVES LLC

Industrial City of Abu Dhabi 1, Plot No. 37B4, Abu Dhabi, UAE (P.O.Box 40306)
Phone:971-2-5508-361 Fax:971-2-5508-396

ADEKA EUROPE GmbH

Berliner Allee 48, 40212 Dusseldorf, GERMANY
Phone:49-211-179-2450 Fax:49-211-171-0470

ADEKA PALMAROLE SAS

13 rue du 17 Novembre, FR-68100, Mulhouse, FRANCE
Phone:33-3-6875-0530 Fax:33-3-8942-8389

AMFINE CHEMICAL CORP.

10 Mountainview Road, Suite 215n, Upper Saddle River, NJ 07458-1933, USA
Phone:1-201-818-0159 Fax:1-201-818-0259

ADEKA BRAZIL LTDA

Rua Cubatao, 86-Conjunto 509/510, Paraiso, Sao Paulo-SP, CEP 04013-000 BRAZIL
Phone:55-11-3080-2666

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

ADDITIVES SOLUTION

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-36A	■	■			■	■		■	■	■	■		■	■	■					
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	■	■	■	■					■											
NA-05									■	■										
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-2200	■	■	■	■	■															
FP-2200S	■	■	■	■	■															
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		<div></div>	<div></div>	<div></div>																
D-32	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>															

NOTES

Review MATERIAL SAFETY DATA SHEET (MSDS) 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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HEAD OFFICE (POLYMER ADDITIVES SALES DEPT.)
POLYMER ADDITIVES R&D LABORATORY

7-2-35 Higashi-ogu, Arakawa-ku, Tokyo 116-8554, JAPAN
5-2-13 Shirahata, Minami-ku, Saitama City, Saitama 336-0022, JAPAN

Phone:81-3-4455-2845
Phone:81-48-838-2222



CHINA ADEKA (SHANGHAI) CO.,LTD.
KOREA ADEKA KOREA CORP.
SINGAPORE ADEKA (ASIA) PTE.LTD.
THAILAND ADEKA FINE CHEMICAL (THAILAND) CO.,LTD.

Rm.1006-1010, 10F METRO PLAZA, No.555 Loushanguan Road, Shanghai 200051, CHINA
(Sogong-dong, Seoul Center Bldg), 301, 116, Sogong-ro, Jung-gu, Seoul 100-070, KOREA
213 Pandan Loop, SINGAPORE 128404
Eastern Seaboard Industrial Estate (Rayong), 300/12 Moo 1, Tambon, Tasit,
Amphur Pluak Daeng, Rayong, 21140, THAILAND

Phone:86-21-6229-6622
Phone:82-2-726-0600
Phone:65-6776-8809
Phone:66-3-895-9032

INDIA ADEKA INDIA PVT.LTD
UAE ADEKA AL GHURAIR ADDITIVES LLC
FRANCE ADEKA PALMAROLE SAS
USA AMFINE CHEMICAL CORP.

Unit 206 & 207 B-Wing, Dynasty Business Park, Andheri-Kurla Road, Andheri East,
Mumbai-400059, INDIA
Industrial City of Abu Dhabi 1, Plot No. 37B4, Abu Dhabi, UAE (P.O.Box 40306)
13 rue du 17 Novembre, FR-68100, Mulhouse, FRANCE
10 Mountainview Road Suite 215N Upper Saddle River, NJ 07458-1933 USA

Phone:91-22-4026-3301
Phone:971-2-5508-361
Phone:33-3-6875-0530
Phone:1-201-818-0159



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