



TECHNOLOGY
CREATES A BETTER LIFE

JIANGSU TETRA NEW MATERIAL TECHNOLOGY CO., LTD.



Address: No.6-2, Zhonggang Road, Taixing Economic Development Zone, Jiangsu, P.R. China
Address: Room 103, Building 9, No.650 Shunqing Road, Songjiang District, Shanghai, China
Tel: +86-21-54265697 Fax: +86-21-64854373



www.tetrachem.com.cn

Corporate Philosophy



Vision: Become an international first-class brand and perfect solution provider in the new material industry



Spirit: Facing the future, Group Together, Sharing and win-win



Development Strategy: Under the guidance of the business philosophy of "internationalization, technology and green" accurate and professional management, innovation and entrepreneurship as the spiritual power and action program of the company development. Improve core competitiveness by organizational, technological, cost and quality drivers to serve customers, competition and change.



Our business is all over the world

The company has established a complete sales network with Shanghai as the center, in addition to meeting the needs of domestic customers, Tetra's products are exported and sold to more than 50 countries worldwide.



Company Profile



Jiangsu Tetra New Material Technology Co., Ltd. was established in 2004. The production base is located in Taixing economic development zone, Jiangsu province. It is a high-tech enterprise specializing in the R & D, production, sales and technical service of alicyclic epoxy resin. It is one of the leading suppliers of alicyclic epoxy resin worldwide.

Tetra was positioned to be an advanced epoxy resin supplier. Through several decade years of development, the company has successfully broken the technical blockade of foreign enterprises in the field, realized the localization substitution of various alicyclic epoxy monomers, and formed a series of technical systems with independent intellectual property rights. At present, the company has more than 60 patents. The products are widely used in different fields: UV Curable Coatings / Inks, Composites, Electrical and electronic insulation, Semiconductor Packaging Materials, 3D Printing Additive Manufacturing etc.



Jiangsu Base



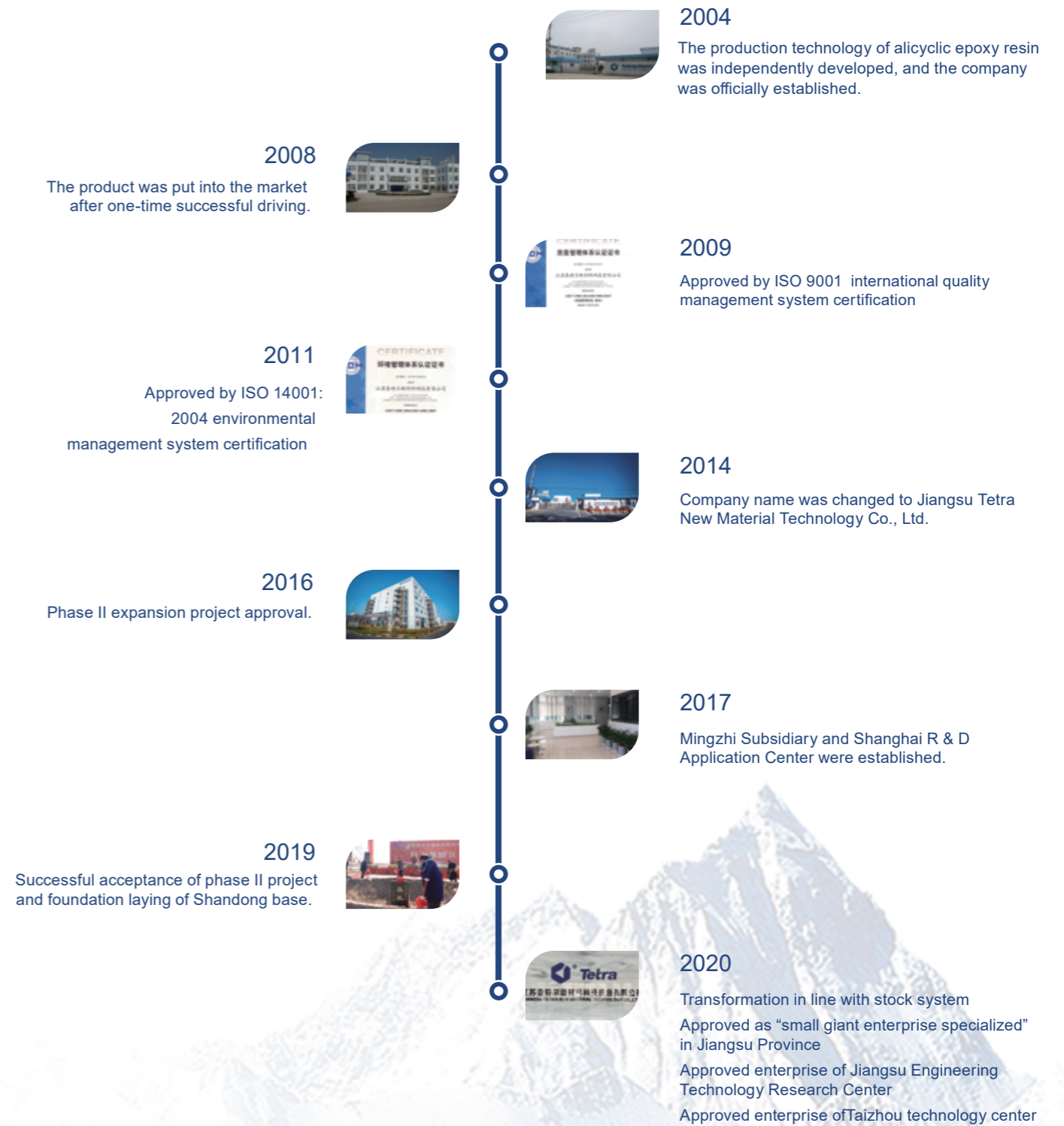
Shandong Base

The company has set up a super management team which composed of professionals engaged in R & D and technology. The company has an epoxy resin engineering technology center and an application technology service center. It is equipped with complete technology chain such as small test laboratory, safety laboratory, kilogram scale expansion test laboratory, pilot test conversion device, etc. In terms of staff, there are 2 doctors and 16 masters, and more than 70% of employees have a college degree or above. At the same time, the company has established a long-term cooperative relationship with Tianjin University and other well-known colleges and universities, jointly committed to the development and production transformation of alicyclic epoxy resin.

			
2004	40000	60	ISO
Founded in 2004	The company covers an area of 40000 square meters	More than 60 patents applied	Quality Management System certification

Currently, the company is carrying out the investment and construction of the Shandong base and the expansion and reconstruction of the Taixing base. After the completion of the project, Tetra will be further promoted to be a benchmark enterprise in the new material industry.

History & Milestone



2004
The production technology of alicyclic epoxy resin was independently developed, and the company was officially established.

2008
The product was put into the market after one-time successful driving.

2009
Approved by ISO 9001 international quality management system certification

2011
Approved by ISO 14001: 2004 environmental management system certification

2014
Company name was changed to Jiangsu Tetra New Material Technology Co., Ltd.

2016
Phase II expansion project approval.

2017
Mingzhi Subsidiary and Shanghai R & D Application Center were established.

2019
Successful acceptance of phase II project and foundation laying of Shandong base.

2020
Transformation in line with stock system
Approved as "small giant enterprise specialized" in Jiangsu Province
Approved enterprise of Jiangsu Engineering Technology Research Center
Approved enterprise of Taizhou technology center

Product Applications



UV COATINGS/INK

Typical products
TTA21 TTA26 TTA3150 TTA15
TTA16 TTA20 TTA22 TTA28 TTA800

INSULATING MATERIAL



Typical products
TTA21 TTA26 TTA27 TTA800 TTA184

ELECTRICAL POTTING MATERIAL

Typical products
TTA21 TTA27 TTA22 TTA11
TTA184 TTA182 TTA186
TTA500 TTA520 TTA800

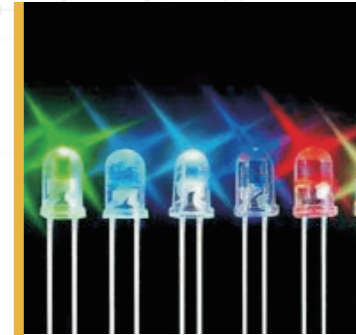


3D PRINTING

Typical products
TTA21 TTA26 TTA3150 TTA800



LED ENCAPSULANT



Typical products
TTA21 TTA26 TTA28 TTA3150
TTA16 TTA27 TTA20 TTA22

COMPOSITES

Typical products
TTA21 TTA26 TTA3150
TTA27 TTA184 TTA186 TTA28
TTA22 TTA500 TTA520 TTA800



ADHESIVE

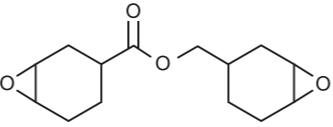
Typical products
TTA21 TTA26 TTA27 TTA28 TTA22,
TTA20 TTA800 TTA184 TTA186

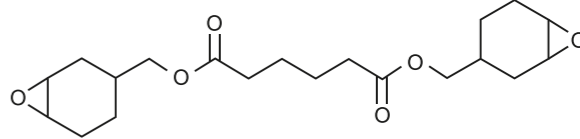


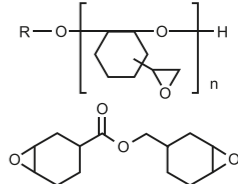


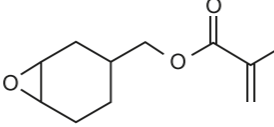
Product List

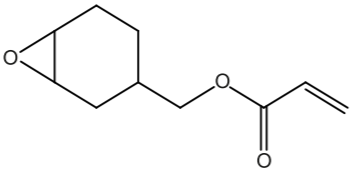
Cycloaliphatic Epoxides

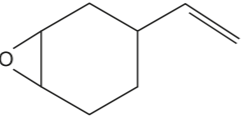
Grade	TTA21			CAS No. 2386-87-0
Name	3,4-Epoxycyclohexylmethyl -3',4'-Epoxycyclohexane Carboxylate			
Spec.	TTA21S	TTA 21L	TTA 21P	
Assay (%)	90.0 min	95.0 min	97.0 min	
EEW (g/mol)	128~145	126~135	126~135	
APHA Color (Hazen)	100max	50max	50max	
Viscosity (mPa·s/25°C)	180~450	220~300	220~300	
Total Chlorine (ppm)	\	\	100 max	
Applications	<ul style="list-style-type: none"> · Cationic curable resins (varnish, ink, adhesive, light-curing) · Electrical pouring and electronic encapsulation · Impregnated insulating paint & PCB board · Exterior coatings and solventless coatings · Active diluent · Composites (Fiber reinforced plastics lamination and winding) · Polyvinyl chloride polycarbonate stabilizer, oil (Lubricating oil, cylinder oil, transformer oil) additives, etc 			

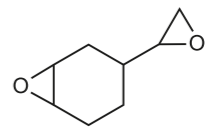
Grade	TTA26	CAS No. 3130-19-6
Name	Bis (3,4-Epoxycyclohexylmethyl)Adipate	
Spec.		
EEW (g/mol)	190~210	
APHA Color (Hazen)	150max	
Viscosity (mPa·s/25°C)	400~750	
Applications:	<ul style="list-style-type: none"> · Cationic curable resins (varnish, ink, adhesive, light-curing) · Electrical insulating materials (electrical insulating paint, resin insulator, GIS) · Electronic materials (semiconductor sealant, LED encapsulant) · Stabilizer (halide, insulating oil, synthetic resin) · Composites (FRP, Mica tape) 	

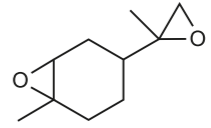
Grade	TTA3150 TTA3150CE	CAS No. [244772-00-7] [2386-87-0]	
Name	Poly[2-oxiranyl]-1,2-cyclohexanediol]-2-ethyl-2-(hydroxymethyl)-1,3-propanediol ether Mixture of TTA3150 & TTA21(TTA3150CE)		
Spec.	TTA3150	TTA3150CE	
EEW (g/mol)	170~200	147~157	
APHA Color (Hazen)	50 max	80 max	
Viscosity (mPa·s/25°C)	\	40000-60000	
Softening Point	70~90°C	\	
Applications:	<ul style="list-style-type: none"> · Printed circuit board materials · Powder coatings · Fiber reinforced composites · MEMS optical elements · LED encapsulant · Polyester hydrolysis inhibitor 		

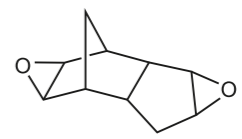
Grade	TTA15	CAS No. 82428-30-6
Name	3,4-Epoxy cyclohexyl methyl methacrylate	
Spec.		
Assay (%)	95.0 min	
EEW (g/mol)	195~215	
APHA Color (Hazen)	50 max	
Viscosity (mPa · s/25°C)	30	
Applications:	<ul style="list-style-type: none"> · Cationic curable resins (varnish, ink, adhesive, light-curing) · Active diluent, resin modifier, adhesive 	

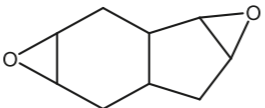
Grade	TTA16	CAS No. 64630-63-3
Name	3,4-Epoxy cyclohexyl methyl acrylate	
Spec.		
Assay (%)	95.0 min	
EEW (g/mol)	190~210	
APHA Color (Hazen)	50 max	
Viscosity (mPa · s/25°C)	10	
Applications:	<ul style="list-style-type: none"> · Cationic curable resins (varnish, ink, adhesive, light-curing) · Active diluent, resin modifier, adhesive 	

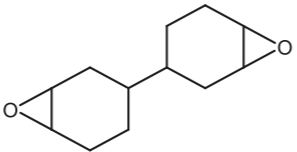
Grade	TTA11	CAS No. 106-86-5
Name	4-Vinyl-1-Cyclohexene 1,2-Epoxy	
Spec.		
Assay (%)	99.0 min	
APHA Color (Hazen)	30 max	
Applications:	<ul style="list-style-type: none"> · Active diluent, Coupling agent, adhesive · Silicone modified epoxy resin · Electronic chip encapsulant 	

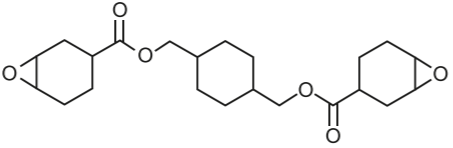
Grade	TTA22	CAS No. 106-87-6
Name	1,2-Epoxy-4-epoxyethylcyclohexane	
Spec.		
Assay (%)	95.0 min	
EEW (g/mol)	70~80	
APHA Color (Hazen)	50 max	
Viscosity (mPa · s/25°C)	5~30	
Applications:	<ul style="list-style-type: none"> · Electronic components potting (LED package) · Active diluents and stabilizer · Fiber reinforced composites · Optical adhesives and light cured products 	

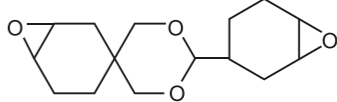
Grade	TTA20	CAS No. 96-08-2
Name	Dipentene diepoxide	
Spec.		
Assay (%)	95.0 min	
EEW (g/mol)	80~100	
APHA Color (Hazen)	30 max	
Viscosity (mPa · s/25°C)	4~20	
Applications:	<ul style="list-style-type: none"> · Diluent · Lubricant additive · Plasticizer · Chemical intermediate 	

Grade	TTA27	CAS No. 81-21-0
Name	1,2:5,6-Diepoxycyclohexane-4,7-methanoindan	
Spec.		
Assay (%)	98.0 min	
EEW (g/mol)	70~90	
M.P.	184~188°C	
Applications:	<ul style="list-style-type: none"> · Electrical castables · High temperature adhesives · Laminating materials · High temperature resistant coatings · LED packaging resin materials · Metal mould materials · Special high temperature durable materials · Special performance composites · Adhesive for PCB substrate · High performance electrical components potting compound 	

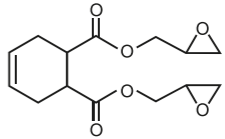
Grade	TTA28	CAS No.	2886-89-7
Name	Tetrahydroindene diepoxide		
Spec.			
Assay (%)	95.0 min		
EEW (g/mol)	70~100		
APHA Color (Hazen)	50 max		
Viscosity (mPa·s/25°C)	10~30		
Applications:	<ul style="list-style-type: none"> · Cationic curable resins (varnish,ink,adhesive, light-curing) · Active diluent、Stabilize · Electronic materials (semiconductor sealant, LED encapsulant) · Electrical insulating materials 		

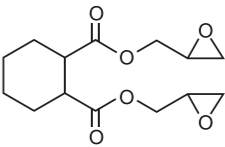
Grade	TTA800	CAS No.	37777-16-5
Name	(3,4,3',4'-dicycloxyl) bicyclohexane		
Spec.			
EEW (g/mol)	100~110		
APHA Color (Hazen)	50 max		
Viscosity (mPa·s/25°C)	50~70		
Applications:	<ul style="list-style-type: none"> · Cationic curable resins (varnish,ink,adhesive, light-curing) · Electronic materials (semiconductor sealant, LED encapsulant,underfills) · Electrical insulating materials (electrical insulating paint, resin insulator, GIS) 		

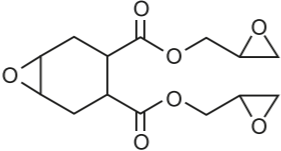
Grade	TTA60	CAS No.	20249-12-1
Name	1,4-Cyclohexanedimethanol bis(3,4-epoxycyclohexanecarboxylate)		
Spec.			
EEW (g/mol)	200~220		
Applications:	<ul style="list-style-type: none"> · Cationic curable resins (varnish,ink,adhesive, light-curing) · High temperature adhesives · High temperature adhesives · Special high temperature endurable materials 		

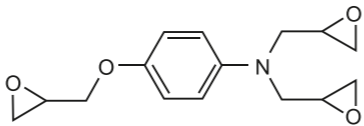
Grade	TTA34	CAS No.	64034-70-4
Name	2-(3,4-epoxy)cyclohexyl-5,5-spiro(3,4-epoxy)cyclohexane-m-dioxane, homopolymer		
Spec.			
EEW (g/mol)	130~160		
APHA Color (Hazen)	100 max		
Viscosity (mPa·s/25°C)	10000~40000		
Applications:	<ul style="list-style-type: none"> · Cationic curable resins (varnish,ink,adhesive, light-curing) · Electrical castables · High temperature adhesives · High temperature resistant coatings · Special high temperature endurable materials · Special performance composites 		

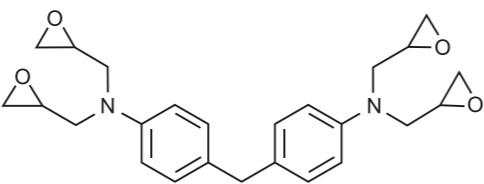
Glycidyl Ester (amine type) Expoxides

Grade	TTA182	CAS No.	21544-03-6
Name	Tetrahydrophthalic acid diglycidyl ester		
Spec.			
EEW (g/mol)	150~175		
Viscosity (mPa·s/25°C)	600~1200		

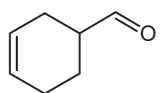
Grade	TTA184	CAS No.	5493-45-8
Name	Diglycidyl 1,2-cyclohexanedicarboxylate		
Spec.			
EEW (g/mol)	160~180		
APHA Color (Hazen)	100 max		
Viscosity (mPa·s/25°C)	600~900		

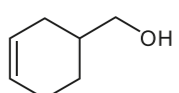
Grade	TTA186	CAS No.	25293-64-5
Name	4,5-Epoxy cyclohexane-1,2-dicarboxylic acid diglycidyl ester		
Spec.			
EEW(g/mol)	110~130		
Viscosity (mPa · s/25 C°)	3000~5000		
			

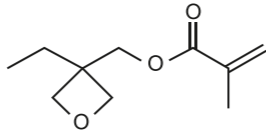
Grade	TTA500	CAS No.	5026-74-4
Name	N,N-Diglycidyl-4-glycidyoxyaniline		
Spec.			
EEW(g/mol)	100~115		
Viscosity (mPa · s/25 C°)	1500~3000		
			

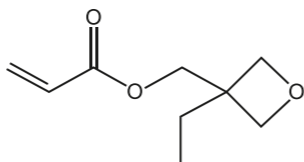
Grade	TTA520	CAS No.	28768-32-3
Name	4,4'-Methylenebis(N,N-diglycidylaniline)		
Spec.			
EEW(g/mol)	110~130		
Viscosity (mPa · s/50°C)	3000~6000		
			

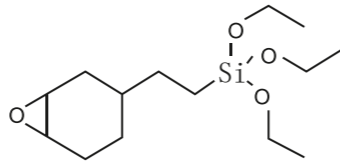
Intermediate

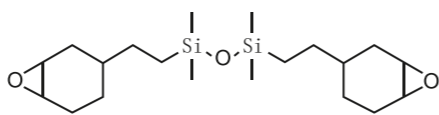
Grade	TTA2101	CAS No.	100-50-5
Name	3-Cyclohexene-1-carboxaldehyde		
Spec.			
Assay (%)	98.0 min		
APHA Color (Hazen)	100 max		
			

Grade	TTA2107	CAS No.	1679-51-2
Name	3-Cyclohexene-1-methanol		
Spec.			
Assay (%)	98.0 min		
APHA Color (Hazen)	100 max		
			

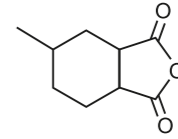
Grade	TTA-202	CAS No. 37674-57-0
Name	3-Ethyl-3-(methacryloyloxymethyl)oxetane	
		

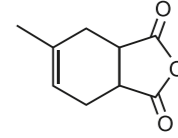
Grade	TTA-103	CAS No. 41988-14-1
Name	3-Ethyl-3-(acryloyloxymethyl)oxetane	
		

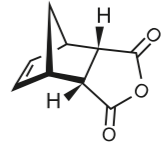
Grade	TTA-124	CAS No. 10217-34-2
Name	1,2-Epoxy-4-(2-triethoxysilylethyl)cyclohexane	
		

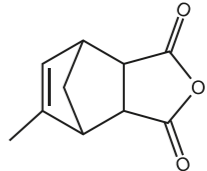
Grade	TTA-125	CAS No. 18724-32-8
Name	Bis[2-(3,4-epoxycyclohexyl)ethyl]tetramethyldisiloxane	
		

Anhydride Curing Agent

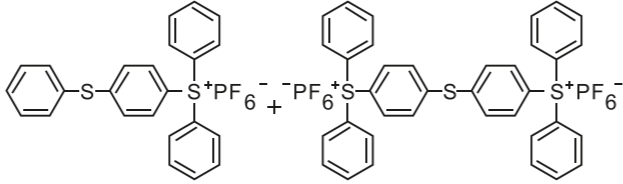
Grade	TTA C-211	CAS No. 25550-51-0
Name	Methylhexahydrophthalic anhydride	
Spec.		
Assay (%)	98.0 min	
APHA Color (Hazen)	50 max	
Viscosity (mPa · s/25°C)	50~80	
		

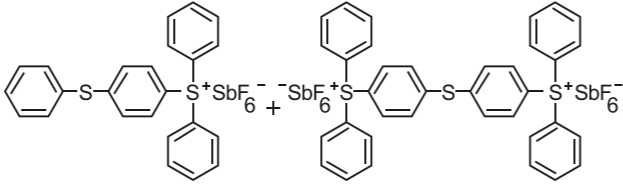
Grade	TTA C-216	CAS No. 11070-44-3
Name	Methylhexahydrophthalic anhydride	
Spec.		
Anhydride Assay	41.0 min	
Viscosity (mPa · s/25°C)	30~70	
Freezing Point	-15°C max	
		

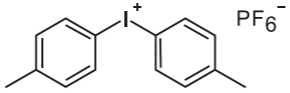
Grade	TTA C-217	CAS No. 826-62-0 129-64-6
Name	Nadic anhydride	
Spec.		
Assay (%)	98.0 min	
APHA Color (Hazen)	150 max	
M.P.	162°C	
		

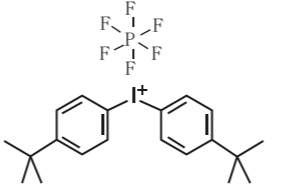
Grade	TTA C-218	CAS No. 25134-21-8
Name	Methyl nadic anhydride	
Spec.		
Viscosity(mPa · s/25°C)	170~300	
Crystallization point	-15 °C max	
Density (g/ml/20°C)	1.20~1.25	
		

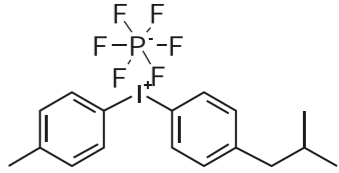
UV Cationic Photoinitiator

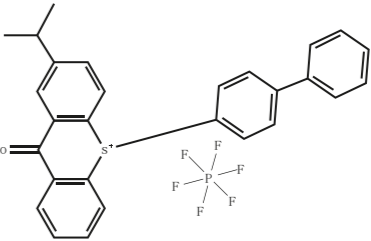
Grade TTA UV-692	CAS No. 75482-18-7 74227-35-3
Name Mixed type triaryl sulfonium phosphonium salts	
Spec.	
Active Content (%)	40.0 min
APHA Color (Hazen)	4 max
Water (%)	1.0 max
	

Grade TTA UV-693	CAS No. 71449-78-0 89452-37-9
Name Mixed type triarylsulfonium hexafluoro antimonate salts	
Spec.	
Active Content (%)	50.0 min
APHA Color (Hazen)	4 max
Water (%)	1.0 max
	

Grade TTA UV-694	CAS No. 60565-88-0
Name 4,4'-dimethyl-diphenyl iodonium hexafluorophosphate	
Spec.	
Active Content (%)	98.0 min
Melting Range	175-180°C
	

Grade TTA UV-695	CAS No. 61358-25-6
Name Bis(4-tert-butylphenyl)iodonium hexafluorophosphate	
	

Grade TTA UV-696	CAS No. 344562-80-7
Name 4-Isobutylphenyl-4'-methylphenyliodoniumhexafluorophosphate	
	

Grade TTA UV-697	CAS No. 591773-92-1
Name 10-(4-Biphenyl)-2-isopropyl-9-oxo-9H-thioxanthenium hexafluorophosphate	
	

Partners



Contact Us

Marketing & Technical Center

Address: Room 103, Building 9, No. 650 Shunqing Road, Songjiang District, Shanghai China
 Postal Code: 201600
 Tel: +86-21-54265697

Domestic Sales

Tel: +86-21-54265697-6309
 Fax: +86-21-64821580
 Phone: +86-13701701276
 Email: domestic@tetrachem.com.cn

Export Sales

Tel: +86-21-64854340
 Fax: +86-21-64821580
 Phone: +86-18721962367
 Email: export@tetrachem.com.cn

Jiangsu Base

Postal Code: 225400
 Address: No. 6-2, Zhonggang Road, Taixing Economic Development Zone, Jiangsu, P.R. China
 Tel: +86-523-87673111
 Fax: +86-523-87671399

Shandong Base

Postal Code: 257091
 Address: Dongying Port Economic Development Zone, Shandong, P.R. China
 Tel: +86-546-3588788



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