

About Ocean Chemical

Bridging the Pacific for High-Quality, High-Service Chemical Solutions

Ocean Chemical is your trusted partner with the expertise and efficiency of Shandong Brother Sci. & Tech. Co., LTD. out of China. This partnership offers:

- **Same-Day Response** Ask the industry experts directly to receive the technical support you need, when you need it.
- **Cost Savings** Bypass middlemen to access the highest quality products at the best possible prices.
- **Responsive, Transparent Support** Our U.S.-based team provides personalized attention and keeps you informed every step of the way.
- **Just-In-Time Delivery** Our strategically located distribution centers in the U.S., including Evansville, IN, ensures your critical projects get the materials they need, on time and on budget.
- **Full Product Suite** From our proven brominated and non-halogenated flame retardants to custom-engineered solutions, our technical team works with you to solve the challenges of the day.

With Ocean Chemical, you can count on premier products combined with the white-glove service you deserve. Experience the difference of a true partner committed to your success.

Please visit our websites at: www.oceanchemical.com & www.oceanchemie.com

Shandong Brothers Science & Technology



Product List

Strictly Confidential

Halogenated
Environmentaly Friendly - Non Halogenated
Synergists
Metal Hydroxides
Anti-Drips
Smoke Suppressants
Masterbatches

Shandong Brothers Sci. & Tech. Co., LTD & Ocean Chemical LLC

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Shandong Brothers Science & Technology

Halogenated

Product Name	Chemical Name	CAS #	EC #	Appearance	Assay %	Melt C°	Compatibility
XZ-2300	Tris(tribromophenoxy)-s-triazine	25713-60-4	426-040-2	White Powder	99.50%	165	HIPS, PBT, PS, ABS, PET, PP, GF+PBT, GF+ABS, GF+PS
XZ-4100	Brominated Epoxy Polymer	135229-48-0	603-911-7	Off-White Powder	53%-55% - Br	180-210	PBT, PET, PET/PBT, PC, ABS, PC/ABS, HIPS, SAN, PA (Nylon), PS
XZ-5100	Tetrabromobisphenol A Bis (Allylether)	25327-89-3	246-850-8	White Powder	51% - Br	228-230	PS, EPS
XZ-5200	Phenoxy-terminated carbonate oligomer of Tetrabromobisphenol A	94334-64-2	619-012-8	White Powder	52% - Br	180-210	HIPS, PC, ABS
XZ-5300	2,4,6-Tribromophenyl-terminated Carbonate oligomer of tetrabromobisphenol A	71342-77-3	615-282-6	White Powder	58% - Br	115-120	PBT, PET, PBT/PETBlends, PC, ABS, PC/ABS Blends, HIPS, PSU, SAN
XZ-5800	Tetrabromobisphenol-A	79-94-7	201-236-9	White Crystalline Solid	58% - Br	180-210	EP, ABS
XZ-6000	Dibromoneopentyl glycol	3296-90-0	221-967-7	White Crystalline Powder	60% - Br	230-260	Unsat PE, PU Foams, CFC Free Foams
XZ-6100	Tetrabromo Phthalic Anhydride	632-79-1	211-185-4	Off White Powder	67% - Br	181	Unsat/Sat PE, Rigid PU Polyols, esters, & imids
XZ-6200	Tetrabromo bis(2ethylhexyl) ester	26040-51-7	247-426-5	Light Yellow Liquid	>95% - >44% Br	109.5	PVC, Neoprene Rubber, Wire & Cable, Film & Sheeting, Carpet Backing, Coated Fabrics
XZ-6300	Chlorendic anhydride	115-27-5	204-077-3	Crystal	57% - Cl	275	Unsat PE, UV Stability - Alkyd, PU, PE, Epoxy, Hardener - Epoxy, Paint, Coating
XZ-6400	Poly(2,6-dibromopheno)lether	69882-11-7	TBD	White Powder	64% - Br	-20	PPO, PPO/HIPS
XZ-6500	Tris (2,3-dibromopropyl) isocyanurate	52434-90-9	257-913-4	White Powder	65% - Br	235-239	PVC
XZ-6600	3,5-dibromo-4-(2,3-dibromopropoxy) diphenyl Sulfone (Octabromobisphenol S)	42757-55-1	255-929-6	White Powder	65% - Br	210	PP, PE, PS, ABS, Rubber, Electronics
XZ-6700H	Brominated Polystyrene - 7	88497-56-7	618-171-0	Off White Powder	67% - Br	105-115	PA (Nylon), PE, PET, PBT
XZ-6700L	Brominated Polystyrene - 3	88497-56-7	618-171-0	Off White Powder	67% - Br	115-120	PA (Nylon), PE, PET, PBT, PCT
XZ-6800	TetraBromobisphenol A Bis (2,3-dibromopropyl ether)	21850-44-2	244-617-5	White Granular	67% - Br	260	PP, PE, Wire & Cable. EPS
XZ-7000	Tris(tribromoneopentyl)phosphate	19186-97-1	606-254-4	White Powder	70% - Br	162	PP, HIPS
XZ-8200	Ethane-1,2-bis(pentabromophenyl)	84852-53-9	284-366-9	White Powder	81% - Br	105-117	PP, PE, HIPS, Wire & Cable. Packaging
XZ-9300	white Ethylenebis Tetrabromo Phthalimide	32588-76-4	251-118-6	White Granules	81% - Br	181	HIPS, Wire & Cable, PC



Shandong Brothers Science & Technology

Environmentally Friendly - Non Halogenated

Product Name	Chemical Name	CAS #	EC #	Appearance	Assay %	Melt C°	Compatibility
OC-APP002	Ammonia Phosphate: Phosphate 30% Nitrogen 14%	68333-79-9	269-789-9	White Powder	P 30% / N > 14%	275	Unsat PE, Acrylic, Coatings, Laminates, & Reinforced Materials
OC-APP002T	Ammonia Phosphate: Phosphate 28% Nitrogen 17-18%	68333-79-9	269-789-9	White Granules	P 28% / N 17-18%	275	Unsat PE, Acrylic, Coatings, Laminates, & Reinforced Materials
OC-APPW	Ammonia Phosphate: Phosphate 20% Nitrogen 24%	68333-79-9	269-789-9	White Powder	P 20% / N 24%	275	Unsat PE, Acrylic, Coatings, Laminates, & Reinforced Materials, Water Based coatings
OC-APP750	Ammonia Phosphate: Phosphate 21% Nitrogen 12%	68333-79-9	269-789-9	White Powder	P 21% / N 12%	275	Unsat PE, Acrylic, Coatings, Laminates, & Reinforced Materials
OC-5500	Oligomeric phosphate ester polyol	184538-58-7	606-033-2	Pale Yellow Liquid	P 16-18%	110	Foams, Cushions, PU, Insulation
OC-ADEP	Organic Aluminum Phosphinate	225789-38-8	428-310-5	White Powder	P 18.7 - 19.7%	>300	PP, PA, PBT, PET
OC-BDP	Bisphenol A bis-(diphenylphosphate)	5945-33-5	611-829-8	Colorless Liquid	85%	>300	HIPS, PC/ABS
OC-KSS	Potassium diphenyl sulphone sulphonate	63316-43-8	264-097-3	White Powder	70-80%	300	PC/ABS
OC-MCA	Melamine Cyanurate	37640-57-6	253-575-7	White, Crystalline Powder	99.50%	340	PA (Nylon)
OC-MPP	Melamine Polyphosphate	20208-95-1	243-601-5	Crystalline Powder	P 13-14% / N 44%	330	PA (Nylon), Coating
OC-NFSAK	Nonafluorobutane-1-sulfonic acid potassium salt	29420-49-3	249-616-3	White to Yellow Powder	98%	271	With RDP or BDP for PC/ABS
OC-P4100	Aluminum Hypophosphite	7784-22-7	479-150-8	White Powder	P 41-42% / AI 12%	>300	TPU, PU, TPE, PP, PBT, GF-PBT
OC-PO21	Piperazine pyrophosphate / Phosphoric acid, compound	66034-17-1	457-330-7	White Powder	P 18-21% / N 20-23%	>280	PP, PE, HDPE, LDPE, EVA
OC-PO31	Piperazine pyrophosphate / Phosphoric acid / ZB, compound	66034-17-1	457-330-7	White Powder	P 22% / N 20%	>280	PP, PP-GF, PE, HDPE, LDPE, EVA
OC-PX220	Aryl Polyphosphonates	51732-57-1 (>95%) 115-86-6 (<5%)	TBD	White Powder	>95% / <5%	98	PC/ABS, PPO, PPO/HIPS
OC-RDP	Tetraphenyl resorcinol bis(diphenylphosphate)	57583-54-7	701-337-2	Light Yellow Liquid	Oligomer	242-D	PC/ABS
OC-TPP	Triphenyl phosphate	115-86-6	204-112-2	White Flakes	99%	48.5	EP
OC-PDOPO	9,10-Dihydro-9-oxa-10-phosphaphenathrene 10-oxide	35948-25-5	252-813-7	Crystal	100%	118	Epoxy Resins, PCB, Color Protection, PE Fiber Fabrics



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Synergists

Product Name	Chemical Name	CAS #	EC #	Appearance	Assay %	Melt C°	Compatibility
OC-ATOS-E	ATO Replacement	Mixer	NA	White Granules	50-55%	656	With BFR in HIPS, ABS, PP, PA, PBT & PC
OC-ATOS1	ATO Replacement	Mixer	NA	White Powder	50-55%	300	With BFR in PVC, EVA, Rubbers
SY-807B	Antimony TriOxide	1309-64-4	215-175-0	White Granules	99.3-99.9%	656	With BFR in Plastics/Rubbers/Paints/Textiles/Electronics. Customer select grade.

Metal Hydroxides

Product Name	Chemical Name	CAS #	EC #	Appearance	Assay %	Melt C°	Compatibility
OC-ATH	Aluminium Hydroxide	21645-51-2	244-492-7	White Powder	99.40%	220	Highly Filled Plastics
OC-MDHS98	Magnesium DiHydroxide - Silane treated	1309-42-8	215-170-3	White Powder	98.50%	330	Highly Filled Plastics
OC-MDH88	Magnesium DiHydroxide	1309-42-8	215-170-3	White Powder	98.50%	330	Highly Filled Plastics

Anti-Drips

Product Name	Chemical Name	CAS #	EC #	Appearance	Assay %	Melt C°	Compatibility
OC-SN3306	Polytetrafluoroethylene (50%) Methyl methacrylate-styrene copolymer (50%)	9002-84-0 (50%) 25034-86-0 (50%)	618-337-2 (50%)	White Powder	50% / 50%	120 - 342	Anti-Drip - PC, PS, ABS, PBT, PP, PE, PPO, & Alloys
OC-EFSS10	Flourine & Halogen FREE Anti-Drip	Trade Secret	TBD	White Powder	-	300	Nylon PA, PBT, PET, PP, EVA, PE, TPU, TPE, PPO / HIPS, Epoxy, CCL / PCB, EMC, LED, coating, adhesives, rubber, textile

Smoke Suppressants

Product Name	Chemical Name	CAS #	EC #	Appearance	Assay %	Melt C°	Compatibility
OC-AOM	Ammonium Octamolybdate	12411-64-2	235-650-6	White Powder	61% - Mo / 5.43% - NH3	165	PVC, Alloys, Adhesives, PU
OC-ZHS	Zinc hydroxystannate	12027-96-2	404-410-4	White Powder	Sn > 40% / Zn > 21%	180	ATO Replacement, Polyolefins & PVC
OC-ZS	Zinc Stannate	12036-37-2	601-699-0	White Powder	Sn > 40% / Zn > 21%	180	ATO Replacement, Polyolefins & PVC
OC-ZB200	Zinc borate (2ZnO .3B2O3 . 3.5H2O) 1-3 um	138265-88-0	215-566-6	White Powder	99%	980	Coating
OC-ZB400	Zinc borate (2ZnO .3B2O3 . 3.5H2O) 3-5 um	138265-88-0	215-566-6	White Powder	99%	980	Coating
OC-ZB800	Zinc borate (2ZnO .3B2O3 . 3.5H2O) 8-10 um	138265-88-0	215-566-6	White Powder	99%	980	Coating

Masterbatches

Product Name	Chemical Name	CAS #	EC #	Appearance	Assay %	Melt C°	Compatibility
ATO MB	ATO Masterbatch with Customer Selected Resin	1309-64-4	215-175-0	White Granules	70% - 90%	656	With BFR in Plastics/Rubbers/Paints/Textiles/Electronics
BFR MB	BFR Masterbatch with Customer Selected Resin	Customer Select	Customer Select	White / Off White Granules	70% - 90%	NA	Customer Select BFR & Resin

