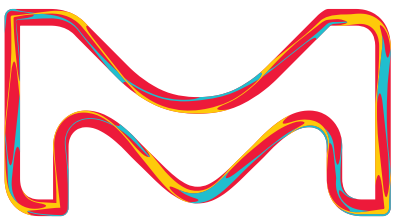


What if Teeth Had a Stronger Bite?

Specialty Materials for
Dental Applications



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Specialty Materials for Dental Applications

Dental applications require high-quality materials that are biocompatible, wear-resistant and durable. Restorative dental materials must withstand the adverse conditions of the oral environment. The selection of monomers, initiators, crosslinkers, ionomers and additives impacts longevity, mechanical characteristics and ultimately the performance of the end product. Besides monomers and other polymerization agents, inorganic materials offer biocompatibility and chemical inertness for dental applications ranging from crowns, caps and cements to additives, elastomers and restorative materials. Adjustment of inorganic constituents allows for tuning of optical and mechanical properties.

We offer a large selection of well-characterized, high purity monomers, inorganics and starting materials for a wide range of dental applications.

For an overview of our specialty offering, visit SigmaAldrich.com/dental



Organic and Polymer Materials For Dental Applications

Cat. No.	Product Name	Product Description	CAS Number
Crosslinkers and Resins			
156329	Bisphenol A dimethacrylate (BisDMA)	>98%	3253-39-2
413550	Bisphenol A ethoxylate diacrylate	average M_n ~468, EO/phenol 1.5, contains 250 ppm MeHQ as inhibitor	64401-02-1
455059	Bisphenol A ethoxylate dimethacrylate	average M_n ~1,700, EO/phenol 15, contains 200 ppm MeHQ as inhibitor	41637-38-1
411167	Bisphenol A glycerolate diacrylate	contains MeHQ as inhibitor	4687-94-9
407283	Dipentaerythritol penta-/hexa-acrylate	contains \leq 650 ppm MeHQ as inhibitor	60506-81-2
436895	Glycerol 1, 3-dimethacrylate (GDMA)	technical grade, 85%, contains 200 ppm MeHQ as inhibitor	1830-78-0
411736	1, 6-Hexanediol dimethacrylate (HDMA)	contains 100 ppm hydroquinone as inhibitor, \geq 90%	6606-59-3
729094	Polyethylene glycol diacrylate	average M_n 10,000, contains MEHQ as inhibitor	26570-48-9
806757	Polyethylene glycol diacrylate	mol wt 3350, 0.2 μ m filtered	26570-48-9
409510	Polyethylene glycol dimethacrylate (PEGDMA)	average M_n 550, contains 80-120 ppm MeHQ as inhibitor, 270-330 ppm BHT as inhibitor	25852-47-5
437468	Polyethylene glycol dimethacrylate (PEGDMA)	average M_n 750, contains 900-1100 ppm MeHQ as inhibitor	25852-47-5
432431	Polystyrene-block-poly(ethylene-ran-butylene)-block-polystyrene-graft-maleic anhydride ((PS-b-(PE-r-B)-b-PS-g-MA))	melt index ~21 g/10 min (230°C/5.0kg)	124578-11-6
246840	Trimethylolpropane trimethacrylate	contains 250 ppm monomethyl ether hydroquinone as inhibitor, technical grade	3290-92-4
Impression Materials, Initiators, and Inhibitors			
8.01641	Benzoyl peroxide	(with 25% H ₂ O) for synthesis	94-36-0
124893	Camphorquinone	97%	10373-78-1
D139505	4-(Dimethylamino) benzonitrile	98%	1197-19-9
374032	4-(Dimethylamino) phenylacetic acid	97%	17078-28-3
347590	2-(4-(Dimethylamino) phenyl) ethanol	\geq 99%	50438-75-0
361879	Dimethylpolysiloxane	set of analytical standards, molecular weight series	9016-00-6
415952	Diphenyl (2, 4, 6-trimethylbenzoyl) phosphine oxide	97%	75980-60-8
43088	Diphenyliodonium chloride	\geq 98% (AT)	1483-72-3
548014	Diphenyliodonium hexafluorophosphate	\geq 98%	58109-40-3
34750	2, 6-Di-tert-butyl-4-methylphenol	purum, \geq 99% (GC)	128-37-0
E24905	Ethyl 4-(dimethylamino)benzoate	\geq 99%	10287-53-3
405655	2-Hydroxy-2-methylpropiophenone	97%	7473-98-5
M18655	4-Methoxyphenol	ReagentPlus®, 99%	150-76-5
164127	2, 2'-(4-Methylphenylimino) diethanol	technical grade, 90%	3077-12-1
180777	N, N-Dimethyl-m-toluidine	97%	121-72-2
156507	9,10-phenanthrenequinone	\geq 99%	84-11-7
511447	Phenylbis(2,4,6-trimethylbenzoyl)phosphine oxide	97%, powder	162881-26-7
479519	Platinum (0)-1, 3-divinyl-1, 1, 3,3-tetramethyldisiloxane complex solution	in xylene, Pt ~2%	68478-92-2
479535	Platinum (0)-1, 3-divinyl-1, 1, 3,3-tetramethyldisiloxane complex solution	0.05 M in poly(dimethylsiloxane), vinyl terminated	68478-92-2
479527	Platinum (0)-1, 3-divinyl-1, 1, 3,3-tetramethyldisiloxane complex solution	0.1 M in poly(dimethylsiloxane), vinyl terminated	68478-92-2
482196	Poly (dimethylsiloxane-co-methylhydrosiloxane), trimethylsilyl terminated	average M_n ~950, methylhydrosiloxane 50 mol %	68037-59-2

Cat. No.	Product Name	Product Description	CAS Number
482374	Poly (dimethylsiloxane-co-methylhydrosiloxane), trimethylsilyl terminated	average $M_n \sim 13,000$, methylhydrosiloxane 3-4 mol %	68037-59-2
433012	Poly(dimethylsiloxane), vinyl terminated	average $M_w \sim 25,000$, viscosity 850-1,150 cSt (25 °C)(lit.)	68083-19-2
P8010	Sodium pyrophosphate tetrabasic	$\geq 95\%$	7722-88-5
V900752	Sodium pyrophosphate tetrabasic	Vetec™ reagent grade, 95%	7722-88-5
T84409	Triphenylphosphine	ReagentPlus®, 99%	603-35-0
T5508	Trisodium trimetaphosphate	$\geq 95\%$	7785-84-4
Ionomers			
181285	Polyacrylic acid	average $M_v \sim 450,000$	9003-01-4
Monomer			
409448	Benzyl methacrylate	96%, contains MeHQ as inhibitor	2495-37-6
496758	Bis (2-(methacryloyloxy) ethyl) phosphate		32435-46-4
494356	Bisphenol A glycerolate dimethacrylate	glycerol/phenol 1	1565-94-2
234958	1,4-Butanediol dimethacrylate	95%, contains 200-300 ppm MeHQ as inhibitor	2082-81-7
235865	Butyl methacrylate	99%, contains monomethyl ether hydroquinone as inhibitor	97-88-1
808725	1,10-Decanediol dimethacrylate	contains 4-Methoxyphenol as inhibitor	6701-13-9
409006	Di(ethylene glycol) dimethacrylate	95%	2358-84-1
234907	2-(Dimethylamino) ethyl methacrylate	contains 700-1000 ppm MeHQ as inhibitor, 98%	2867-47-2
436909	Diurethane dimethacrylate (UDMA)	contains 225 ppm \pm 25 ppm topanol as inhibitor, $\geq 97\%$	72869-86-4
234893	Ethyl methacrylate	contains 15-20 ppm MeHQ as inhibitor, 99%	97-63-2
E1505	Ethyl-2-cyanoacrylate	liquid	7085-85-0
246816	1,6-Hexandiol diacrylate	technical grade, 80%	13048-33-4
407364	2-Hydroxy-3-phenoxypropyl acrylate	contains 250 ppm MeHQ as inhibitor	16969-10-1
128635	2-Hydroxyethyl methacrylate (HEMA)	contains ≤ 250 ppm MeHQ as inhibitor, 97%	868-77-9
477028	2-Hydroxyethyl methacrylate (HEMA)	$\geq 99\%$, contains ≤ 50 ppm MeHQ as inhibitor	868-77-9
392111	Isobornyl methacrylate	technical grade	7534-94-3
M55909	Methyl methacrylate	contains ≤ 30 ppm MeHQ as inhibitor, 99%	80-62-6
764973	N-Ethyl acrylamide	contains MeHQ as inhibitor, 99% (HPLC)	5883-17-0
381462	Pentaerythritol tetrakis(3-mercaptopropionate)	$> 95\%$	7575-23-7
246794	Pentaerythritol triacrylate	technical grade	3524-68-3
409456	Tetrahydrofurfuryl methacrylate	contains 900 ppm MeHQ as inhibitor, 75 ppm HQ as inhibitor, 97%	2455-24-5
114235	1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	98%	1025-15-6
261548	Triethylene glycol dimethacrylate (TEGDMA)	contains 80-120 ppm MeHQ as inhibitor, 95%	109-16-0
440159	3-(Trimethoxysilyl)propyl methacrylate	98%	2530-85-0
412198	Trimethylolpropane ethoxylate triacrylate	average $M_n \sim 912$	28961-43-5
409073	Trimethylolpropane ethoxylate triacrylate	average $M_n \sim 428$	28961-43-5
412171	Trimethylolpropane ethoxylate triacrylate	average $M_n \sim 692$, contains 100 ppm MeHQ as inhibitor	28961-43-5
347493	(Trimethylsilyl) methacrylate	98%	13688-56-7
347485	2-(Trimethylsilyloxy)ethyl methacrylate	contains ≤ 100 ppm BHT as inhibitor, 96%	17407-09-9
446130	3-(Tris (trimethylsiloxy) silyl)propyl methacrylate	contains MeHQ + HQ as stabilizer, 98%	17096-07-0
V3409	1-Vinyl-2-pyrrolidinone	contains sodium hydroxide as inhibitor, $\geq 99\%$	88-12-0
Monomer Precursors			
147230	Acrylic acid	anhydrous, contains 200 ppm MeHQ as inhibitor, 99%	79-10-7
155721	Methacrylic acid	contains 250 ppm MeHQ as inhibitor, 99%	79-41-4
276685	Methacrylic anhydride	contains 2,000 ppm topanol A as inhibitor, 94%	760-93-0
52321	Methacryloyl chloride	97%, contains ~ 200 ppm MeHQ as stabilizer	920-46-7

Inorganic Materials For Dental Applications

Cat. No.	Product Name	Product Description	CAS Number
Metal Salts			
344915	Aluminum metaphosphate		13776-88-0
449792	Erbium(III) chloride	anhydrous, powder, 99.9% trace metals basis	10138-41-7
298166	Erbium(III) nitrate pentahydrate	99.9% trace metals basis	10031-51-3
338893	Lithium phosphate		10377-52-3
449946	Neodymium(III) chloride	anhydrous, powder, ≥99.99% trace metals basis	10024-93-8
289175	Neodymium(III) nitrate hexahydrate	99.9% trace metals basis	16454-60-7
238007	Potassium hexafluoroantimonate	99%	16893-92-8
298298	Praseodymium(III) chloride	anhydrous, powder, 99.99% trace metals basis	10361-79-2
205133	Praseodymium(III) nitrate hexahydrate	99.9% trace metal basis	15878-77-0
250171	Sodium hexafluorosilicate		16893-85-9
204455	Strontium carbonate	99.995% trace metals basis	1633-05-2
439665	Strontium Chloride	anhydrous, powder, ≥99.99% trace metals basis	10476-85-4
325945	Terbium(III) nitrate pentahydrate	99.9% trace metal basis	57584-27-7
401498	Zinc hexafluorosilicate hydrate	99%	16871-71-9
Nanopowders			
637017	Bismuth(III) oxide	nanopowder, 90-210 nm particle size, 99.8% trace metals basis	1304-76-3
634298	Europium(III) oxide	nanopowder, <150 nm particle size, 99.5% trace metals basis	1308-96-9
544884	Iron(III) oxide	nanopowder, <50 nm particle size	1309-37-1
634271	Lanthanum(III) oxide,	nanopowder, < 100 nm, 99% trace metal basis	1312-81-8
637238	Silicon Dioxide	nanopowder, 10-20 nm particle size (BET), 99.5% trace metals basis&	7631-86-9
Oxides and Ceramics			
202606	Aluminum oxide	99.997% trace metals basis	1344-28-1
383309	Barium zirconate	powder, <10 μm	12009-21-1
202827	Bismuth(III) oxide	powder, 99.999% trace metals basis	1304-76-3
255475	Boron nitride	powder, ~1 μm, 98%	10043-11-5
202975	Cerium(IV) oxide	powder, 99.995% trace metals basis	1306-38-3
203068	Chromium(III) oxide	powder, 99.9% trace metals basis	1308-38-9
203114	Cobalt(II, III) oxide	≥99.99% trace metals basis	1308-06-1
203238	Erbium(III) oxide	≥99.99% trace metals basis	12061-16-4
203394	Hafnium(IV) oxide	≥99.95%	12055-23-1
203556	Lanthanum oxide	99.999% trace metals basis	1312-81-8
243442	Manganese(IV) oxide	ReagentPlus®, ≥99%	1313-13-9
203858	Neodymium(III) oxide	99.99% trace metals basis	1313-97-9
481793	Nickel Oxide	≥99.995% trace metals basis	1313-99-1
308382	Potassium hexafluorotitanate(IV)		16919-27-0
590509	Terbium(III) oxide	99.99% trace metals basis	12036-41-8
204781	Tungsten(VI) oxide	powder, 99.995% trace metals basis	1314-35-8
255750	Zinc oxide	99.99% trace metal basis	1314-13-2
230693	Zirconium(IV) oxide	powder, 5 μm, 99% trace metals basis	1314-23-4

Additional Products for Dental Applications

Cat. No.	Product Name	Product Description	CAS Number
Adhesives/Bonding			
4.90220	Cetylaminhydrofluoride	for synthesis	3151-59-5
335681	Ethylene glycol dimethacrylate(EGDM)	98%, contains 90-110 ppm MeHQ as inhibitor	97-90-5
419273	Sodium carboxymethyl cellulose	average Mw ~90,000	9004-32-4
419338	Sodium carboxymethyl cellulose	average Mw ~700,000	9004-32-4
T25402	Sodium tetraphenylborate	ACS reagent, ≥99.5%	143-66-8
209872	4-tert-Butyl-N,N-dimethylaniline	98%	2909-79-7
Cements			
223506	Calcium chloride dihydrate	ACS reagent, ≥99%	10035-04-8
449717	Calcium fluoride	anhydrous, powder, 99.99% trace metals basis	7789-75-5
378801	Calcium fluoride	random crystals, optical grade, 99.99% trace metals basis	7789-75-5
450146	Calcium hydroxide	99.995% metal basis	1305-62-0
451711	Calcium oxide	anhydrous, powder, ≥99.99% trace metals basis	1305-78-8
M0375	Maleic acid	ReagentPlus®, ≥99% (HPLC)	110-16-7
431419	Phosphorus pentoxide	≥99.99% trace metals basis	1314-56-3
298220	Phosphorus pentoxide	powder, ACS reagent, ≥98%	1314-56-3
Multiple pore sizes available	Silica gel		112926-00-8
379786	Zinc acetate dihydrate	99.999% trace metals basis	5970-45-6
204951	Zinc oxide	99.999% metal basis	1314-13-2
Ceramics/Implants			
529303	Iron(III) nitrate nonahydrate	≥99.999% trace metals basis	7782-61-8
637254	Titanium dioxide	nanopowder, <25 nm particle size, 99.7% trace metals basis	13463-67-7
Composites			
162574	Dimethylglyoxime	ACS reagent, ≥99%	95-45-4
Endodontics			
431788	Ethylenediaminetetraacetic Acid	99.995% trace metals basis	60-00-4
27285	Ethylenediaminetetraacetic Acid Disodium Salt Dehydrate	meets analytical specification of Ph. Eur., BP, USP, FCC, 99-101%	6381-92-6
239305	Sodium Hypochlorite Solution	reagent grade, available chlorine 4.00-4.99 %	7681-52-9
425044	Sodium Hypochlorite Solution	reagent grade, available chlorine 10-15%	7681-52-9
Impressions			
Multiple Products Available	Agar		9002-18-0
255548	Calcium sulfate dihydrate	ACS reagent, 98%	10101-41-4
Multiple Products Available	Drierite		7778-18-9
420581	Glycolic acid solution	high purity, 70 wt. % in H ₂ O	79-14-1
M7179	Magnesium carbonate	meets USP testing specifications	23389-33-5
1374226	Magnesium carbonate	United States Pharmacopeia (USP) Reference Standard	23389-33-5
204129	Potassium sulfate	99.99% trace metals basis	7778-80-5

Etchants, Solvents and Other Essential Products

Cat. No.	Product Name	Product Description	CAS Number
Etchants			
340855	Glutaraldehyde	50 wt. % in H ₂ O	111-30-8
258148	Hydrochloric Acid	ACS reagent, 37%	7647-01-0
339253	Hydrochloric Acid	37 wt. % in H ₂ O, 99.999% trace metals basis	7647-01-0
438073	Nitric Acid	ACS reagent, 70%	7697-37-2
452289	Phosphoric Acid	≥85 wt. % in H ₂ O, ≥99.999% trace metals basis	7664-38-2
339741	Sulfuric Acid	99.999%	7664-93-9
Solvents			
179124	Acetone	ACS reagent, ≥99.5%	67-64-1
884785	(±)-1,3-Butanediol	ReagentPlus®, 99.5%	107-88-0
309443	(±)-1,3-Butanediol	anhydrous, ≥99%	107-88-0
360473	2-Butanone	≥99%	78-93-3
319988	Chloroform	contains ethanol as stabilizer, ACS reagent, ≥99.8%	67-66-3
270997	Dichloromethane	anhydrous, ≥99.8%, contains 40-150 ppm amylene as stabilizer	75-09-2
34856	Dichloromethane	≥99.8%, contains amylene as stabilizer	75-09-2
472301	Dimethyl Sulfoxide	ACS reagent, ≥99.9%	67-68-5
Multiple Products available	Ethanol		64-17-5
270989	Ethyl Acetate	anhydrous, 99.8%	141-78-6
319902	Ethyl Acetate	ACS reagent, ≥99.5%	141-78-6
324558	Ethylene Glycol	anhydrous, 99.8%	107-21-1
246654	Heptane	anhydrous, 99%	142-82-5
32293	Hexane	puriss. p.a., ACS reagent, reag. Ph. Eur., ≥99% (GC)	110-54-3
Multiple Products available	Isopropyl Alcohol		67-63-0
34860	Methanol	≥99.9%	67-56-1
322415	Methanol	anhydrous, 99.8%	67-56-1
Multiple Products available	Ethanol, specially denatured		64-17-5
19460	tert-Butanol	puriss. p.a., ACS reagent, ≥99.7% (GC)	75-65-0
401757	Tetrahydrofuran	anhydrous, ≥99.9%, inhibitor-free	109-99-9
648566	Toluene	for HPLC, ≥99.9%	108-88-3
Miscellaneous (Multiple Uses)			
320099	Acetic Acid	ACS reagent, ≥99.7%	64-19-7
Multiple products available	Agarose		9012-36-6
517909	Benzoyl Peroxide	75%, remainder water	94-36-0
179981	Benzoyl Peroxide	reagent grade, ≥98%	94-36-0
C9750	β-Carotene	synthetic, ≥93% (UV), powder	7235-40-7
G2289	Glycerin	meets USP testing specifications	56-81-5
216763	Hydrogen Peroxide	contains inhibitor, 30 wt. % in H ₂ O, ACS reagent	7722-84-1
13142	Magnesium Sulfate Heptahydrate	99.5-100.5% (calc. to the dried substance), meets analytical specification of Ph. Eur., BP, USP, FCC	10034-99-8

Cat. No.	Product Name	Product Description	CAS Number
63142	Magnesium Sulfate Heptahydrate	purum p.a., ≥99% (T)	10034-99-8
Multiple Products available	Phosphate Buffered Saline		
201170	Phosphorus(V) oxychloride	ReagentPlus®, 99%	10025-87-3
Multiple Products available	Poly(ethylene glycol)		25322-68-3
60349	Potassium phosphate dibasic trihydrate	puriss. p.a., ≥99% (T)	16788-57-1
25510	Potassium Tartrate Dibasic Hemihydrate	meets analytical specification of DAC, E336, 99-102% (perchloric acid titration)	6100-19-2
32318	Sodium Acetate Trihydrate	puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., ≥99.5%	6131-90-4
D6750	Sodium Deoxycholate	≥97% (titration)	302-95-4
30970	Sodium Deoxycholate	BioXtra, ≥98% (dry matter, NT)	302-95-4
371432	Sodium percarbonate	avail. H ₂ O ₂ 20-30%	15630-89-4
204447	Sodium Sulfate	≥99.99% trace metals basis	7757-82-6
Multiple Products available	Trizma® Base		77-86-1
Multiple Products available	Water		7732-18-5



Emerging Technologies in Dental Applications

Innovation in dental applications is mostly focused on faster and more facile curation techniques to improve the strength and durability of restorative dentistry while maintaining a natural appearance.

Below, we have summarized innovative technologies that have gained attention in dental application research and development along with few key materials that are being used in these technologies.

Fast light-curing dental composite

Traditional light curing of resin-based dental composites has several disadvantages, including shorter curing depth, translucence of the material and high polymerization shrinkage stress. Newly developed light-based curing methods can address many problems faced by traditional composites using a combination of one or more mono & polyfunctional radical polymerizable monomers, a photoinitiator and one or more fillers.

Cat. No.	Product Name	Product Description	CAS Number
156329	Bisphenol A dimethacrylate (BisDMA)	>98%	3253-39-2
494356	Bisphenol A glycerolate dimethacrylate	glycerol/phenol 1	1565-94-2
415952	Diphenyl (2, 4, 6-trimethylbenzoyl)phosphine oxide	97%	75980-60-8
392111	Isobornyl methacrylate	technical grade	7534-94-3
156507	9,10-phenanthrenequinone	≥99%	84-11-7
261548	Triethylene glycol dimethacrylate (TEGDMA)	contains 80-120 ppm MeHQ as inhibitor, 95%	109-16-0

Smart dental composites

Smart restoratives in dentistry are the new generation of dental materials. A filler combined with one of several thiol-ene polymer resins is one type of smart material now used in dentistry. These stimuli responsive composites prompt visual clues whenever there is a change in stress state of the structure of the implant.

Cat. No.	Product Name	Product Description	CAS Number
381462	Pentaerythritol tetrakis(3-mercaptopropionate)	>95%	7575-23-7
246794	Pentaerythritol triacrylate	technical grade	3524-68-3
114235	1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	98%	1025-15-6

Self-Healing Dental Composites

Self-healing dental composites can increase the life of the restorative material by essentially self-repairing micro cracks and inhibiting their propagation. These innovative composites can also contain an antibacterial agent, enhance remineralization or provide cavity prevention properties.

Cat. No.	Product Name	Product Description	CAS Number
124893	Camphorquinone	97%	10373-78-1
E24905	Ethyl 4-(dimethylamino)benzoate	≥99%	10287-53-3
E1505	Ethyl-2-cyanoacrylate	liquid	7085-85-0
412198	Trimethylolpropane ethoxylate triacrylate	average $M_n \sim 912$	28961-43-5
409073	Trimethylolpropane ethoxylate triacrylate	average $M_n \sim 428$	28961-43-5
412171	Trimethylolpropane ethoxylate triacrylate	average $M_n \sim 692$, contains 100 ppm MeHQ as inhibitor	28961-43-5

Teeth Whitening Compounds

Existing over-the-counter teeth whitening compounds can only remove surface stains, providing limited restoration to enamel lustre and leaving intractable enamel deposits. New approaches use adhesives that contain a polyelectrolyte conjugated with a polyamine and a whitening agent to achieve whiter teeth without harsh destaining techniques. Some of the other thickening and oxidising agents also used in these techniques are sodium percarbonate and 1-vinyl-2-pyrrolidinone.

Cat. No.	Product Name	Product Description	CAS Number
371432	Sodium percarbonate	avail. H ₂ O ₂ 20-30%	15630-89-4
V3409	1-Vinyl-2-pyrrolidinone	contains sodium hydroxide as inhibitor, ≥99%	88-12-0

Non-Acrylic Dental Composites

Non-acrylic dental restoratives can provide a suitable alternative for patients with methacrylate sensitization. 2-Hydroxy-2-methylpropiophenone is a typical photoinitiator that is used to cure non-methacrylate monomers.

Cat. No.	Product Name	Product Description	CAS Number
405655	2-Hydroxy-2-methylpropiophenone	97%	7473-98-5

Composite Material with Ceramic Fibers

Pre-cured dental composites have better mechanical properties to improve function in the oral environment. Ceramic fiber reinforced dental composites can provide additional strength and improved aesthetics. Surface treatment and consecutive bonding of ceramic fibers to the matrix material can be achieved by an organosilane coupling agent like 3-Methacryloxypropyltrimethoxysilane.

Cat. No.	Product Name	Product Description	CAS Number
440159	3-Methacryloxypropyltrimethoxysilane	98%	2530-85-0

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