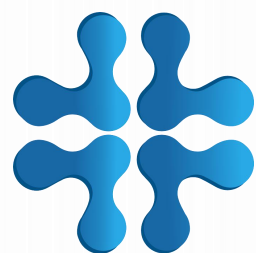




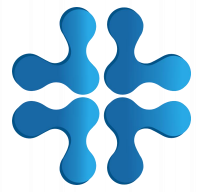
Dongguan Gangtian Polymer Materials Co.,Ltd.

www.gtsilicon.com



GT silicon

Dongguan Gangtian Polymer Materials Co.,Ltd.



GT Silicon

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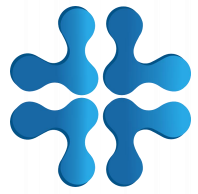
Dongguan GT Polymer Materials Co.,Ltd.

Dongguan Gangtian Polymer Materials Co.,Ltd, located in Dongguan City, Guangdong, CN, is a professional leading manufacturer of RTV-2 liquid silicone rubbers. Focusing our Research & Development on innovation, we have been providing performance-enhancing solutions to serve the diverse needs of thousands of customers worldwide since the year of 2003.

Our main products include RTV-2 moldmaking series(tinsil and platsil), RTV-2 platsil for products, injection LSR, silicone potting compound, silicone oil, silicone ink, etc. With penetrating “Professionalism” in technology solutions and “Honesty” in after service, we GT Polymer Materials Co.,Ltd are not only a trustworthy partner but also a good friend to the customers worldwide.

We always warmly welcome you to join us. Let's go and explore this magic world of silicones!





GT Silicon

Brand Story of Gangtian

Gangtian, founded in 2003 in Dongguan, by Yuanfu Deng, a Chinese chemist and engineer in the field of polymer materials, is a silicone factory brand.

“Gang”, or port, is a new place near sea for him to cultivate. “Tian”, or field, stands for his hometown, a very small village in Hengyang, Hunan Province.

Influenced by his parents who were both farmers, he creatively combines the company culture with Eastern wisdom, to work on the vision of “Making a better life with magic silicone rubber”.

With his efforts and achievements in R & D of silicone rubbers, we have been serving hundreds of domestic and overseas customers with quality materials for more than 15yrs. And now our production capacity reaches to more than 500tons per month.

We uphold the core values of “create value for partners” and create value for e-commerce and information service industry through independent innovation and sincere co-op with “honesty, tolerance, innovation and service” as the spirit of enterprise.



Our Products

Our main products include RTV-2 moldmaking series(tinsil and platsil), Life-casting series (such as human parts, sex toys, breast paddings, etc.), silicone putty, silicone potting compound, silicone additives.



Tinsil



Platsil



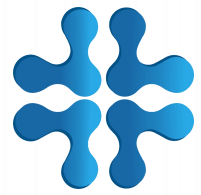
Sil-Putty



Sil- Potting



Additives



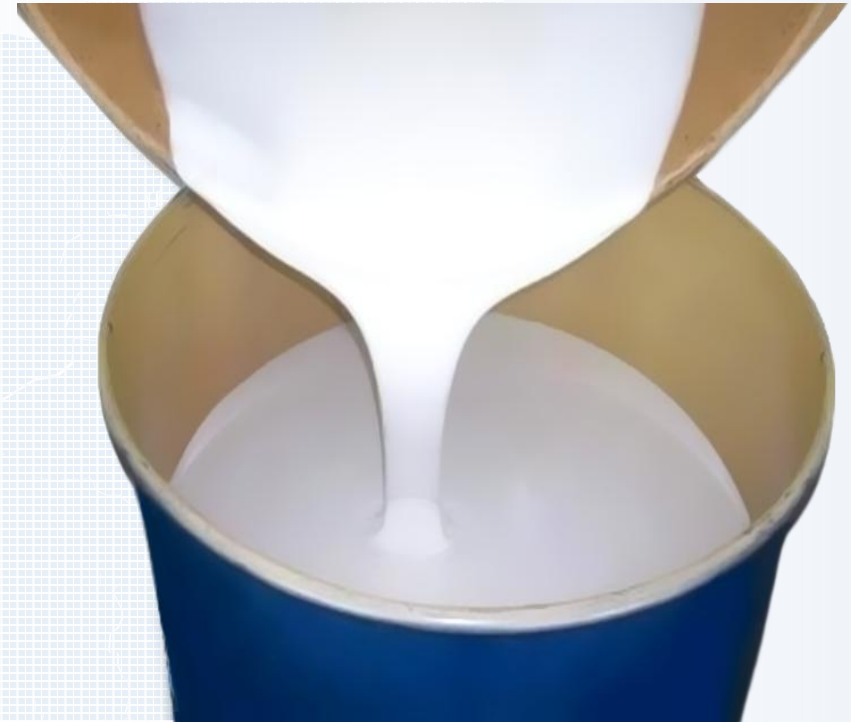
GT Silicon

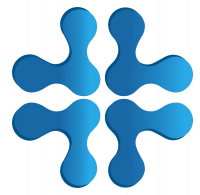
GTSIL-Tin Series

Tin cure silicone rubber, which is also named condensation silicone rubber, is generally a type of two-parts silicone rubber vulcanized at room temperature.

It is mainly used for model designing work of all kinds of products either with simple or intricate patterns, such as artificial/cultural stones, craft stones, gypsum crafts, GRC/GFRC/GRG for restoration, fireplaces, fountains, ornaments, resin crafts, resin marble works, shoe soles, art sculptures, decorative parts, candles, soaps, PU furniture moldings, etc.

With good resistance to deformation, heat, acid & alkali and expansion, finished silicone molds have very good performance in reproduction process of every fine details on designing models.





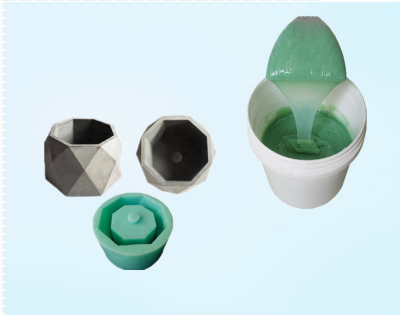
GT Silicon

GTSIL-Tin Series - Applications



Gypsum/Plaster Restoration

GTSIL-T 15, 20, 25 shoreA



Flowerpot Moldmaking

GTSIL-T 30, 40 shoreA



Candle Moldmaking

GTSIL-T 15, 20, 25 shoreA



Soap Moldmaking

GTSIL-T 20, 25, 30 shoreA



Resin Crafts Moldmaking

GTSIL-T 20, 25, 30, 35, 40 shore A



Cultural Stone Moldmaking

GTSIL-T 30, 35, 40 shoreA



Concrete Sculpture Casting

GTSIL-T 30, 35, 40 shoreA



Gypsum Sculpture Casting

GTSIL-T 15, 20, 25 shoreA



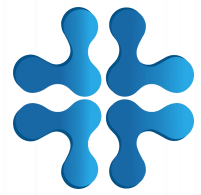
PU Artificial Stone Casting

GTSIL-T 30, 35, 40 shoreA



GRC/GRG Restoration

GTSIL-T 30, 35, 40 shoreA



GT Silicon

GTSIL-Tin Series - Appearance

Part A: an odourless white liquid colloid.

Part B: an aqueous liquid in transparent color.

Warm Tips

- Custom service on colors for Part A and Part B is available.
- Part A and Part B are both certified with certificates of MSDS and Cargo Transportation Test Report.
- COA is offered before shipment.

GTSIL-Tin Series - Features

- Appropriate viscosity for pouring or brushing molding process.
- Stable quality & non-oily.
- Good tension for easy de-molding.
- Good duplication with fine details.
- High performance in replication.
- Excellent resistance against heat, acid & alkali and aging.
- Low shrinkage.
- Long Shelf-life up to 12months.

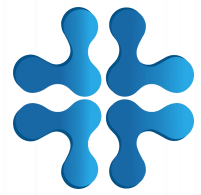


GTSIL-Tin Series - Specifications

Model Code	GTSIL-T 10	GTSIL-T 15	GTSIL-T 20	GTSIL-T 25	GTSIL-T 30	GTSIL-T 35	GTSIL-T 40
Hardness - Shore A	8-10	14-16	19-21	24-26	28-32	34-36	38-40
Viscosity - Cps	10000-14000	12000-16000	14000-18000	16000-20000	26000-32000	33000-38000	10000-14000
Mixing Ratio - %	3%	3%	3%	3%	3%	3%	3%
Tear Strength - KN/m2	10-15	15-18	19-23	23-27	25-30	25-28	16-20
Tensile Strength - Mpa	3.5-5.5	3.5-5.5	4-6	4-6	5-7	5-7	3.5-5.5
Shrinkage - %	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%
Elongation - %	400-500%	400-500%	400-500%	400-500%	350-500%	350-500%	350-500%

Notes

- we can do working time & curing time on basis of your requirement.
- Thickening agent is available for brushing way of operation.
- Want a free sample? - Just feel free to contact us.



GT Silicon

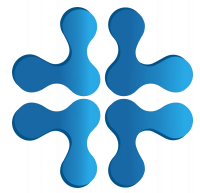
GTSIL-Platinum Series

Platinum cure silicone rubber, which is also named addition cure silicone rubber, is generally a type of two-part liquid silicone rubber vulcanized under room temperature.

Platinum cure silicone rubber is non-hazardous, food-grade, and mainly used for mold making of foods(candy, cake, chocolate, ice-cake, etc), jewelries, tires, rapid prototyping and vacuum foaming. Besides, it's most suitable for life-casting, such as human parts, sex-toys, silicone dolls, breast paddings, and so on. With a very tiny shrinkage, it's also popular for duplication of concrete blocks.

With appropriate hardness, good tensile & tear strength, and excellent resistance to deformation, finished platinum silicone molds have not only a durable life but also a good performance.





GT Silicon

GTSIL-Platinum Series - General Purpose



Ice-cake Moldmaking
GTSIL-T 25, 30, 35 shoreA



Candy/Chocolate Moldmaking
GTSIL-T 15, 20, 25, 30 shoreA



Jewelries Moldmaking
GTSIL-T 30, 35, 40 shoreA



Concrete Restoration
GTSIL-T 30, 35, 40 shoreA



Reproduction of Shoe Insoles
GTSIL-T 5, , 10, 15 shoreA



Production of Suture Practice Kit
GTSIL-T 10, 15 shoreA



Human Part Reproduction
GTSIL-T 0, 5, 10, 15, 20 shoreA



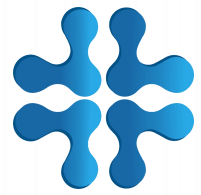
Life-casting of breast paddings
GTSIL-T 0, 5, 10 shoreA



Production of Sex Toys
GTSIL-T 15, 20, 25 shoreA



Reproduction of silicone dolls
GTSIL-T 10, 15, 20, 25 shoreA



GT Silicon

GTSIL-Platinum Series - Appearance

Part A: an odourless translucent liquid colloid.

Part B: an odourless translucent liquid colloid.

Warm Tips

- Custom service on colors for Part A and Part B is available.
- Part A and Part B are both certified with certificates of MSDS, SGS, FDA and Cargo Transportation Test Report.
- COA is offered before shipment.

GTSIL-Platinum Series - Features

- Good fluidity, easy to operate
- Platinum-based (odorless with FDA certified)
- Mixing ratio: 1:1
- Easy de-molding
- Excellent tension and tear strength
- High performance in duplication
- Shrinkage almost zero (below 0.1)
- Excellent resistance to weather, temperature, aging, acid and aging-proofing.
- Very good resistance to high temperature and aging (resist -60°C to 250°C)



GTSIL-Platinum Series - Specifications

Model Code	GTSIL-P0	GTSIL-P5	GTSIL-P10	GTSIL-P15	GTSIL-P 20	GTSIL-P 25	GTSIL-P 30	GTSIL-P 35	GTSIL-P 40	GTSIL-P 45
Hardness - Shore A	0	4-6	8-10	14-16	19-21	24-26	28-30	34-36	38-42	43-46
Viscosity - Cps	1500-3000	2000-3000	2000-3000	2000-3000	2000-3000	2500-3500	2500-3500	3000-4500	3000-5000	3000-5000
Mixing Ratio - %	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1
Tear Strength - KN/m2	10-15	12-16	14-17	16-18	18-22	22-26	20-23	16-19	12-16	10-15
Tensile Strength - Mpa	3-5	3-5	3.5-5.5	4-6	4-6	4-6	4-6	4-6	3.5-5.5	3-5
Shrinkage - %	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
Elongation - %	400-500%	500-600%	500-600%	500-600%	500-600%	400-500%	400-500%	350-500%	300-450%	300-450%

Notes

- we can do working time & curing time on basis of your requirement.
- Thixotropic agent is available for brushing way of operation.
- Want a free sample? - Just feel free to contact us.



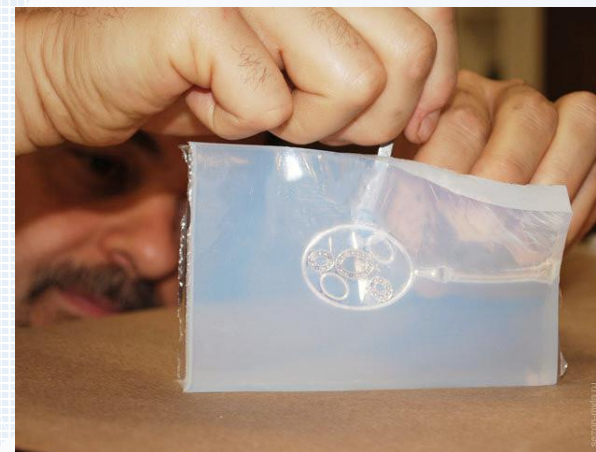
GT Silicon

GTSIL-Platinum Series - Prototyping

Applications



Platinum Cure Silicone is especially applicable for casting rapid prototypes, which is a professional method to create a product out of nothing, a process of developing your idea to an robot model or other mechanical parts. With TR-P30, 35, 40 Platinum Cure Silicone, you can cast the rapid prototype with every single detail precisely and perfectly.





GTSIL-Platinum Series - Prototyping

Appearance

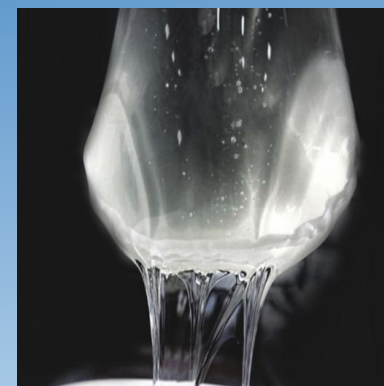
- Part A - an odorless transparent/high transparent liquid colloid.
- Part B - an odorless transparent/high transparent liquid colloid.

Warm Tips

- Custom service on colors for Part A and Part B is available.
- Part A and Part B are both certified with certificates of MSDS, SGS, FDA and Cargo Transportation Test Report.
- COA is offered before shipment.

Features

- Platinum - based, food-grade silicone.
- Mixing ratio -1:1/10:1 for easy operation.
- High Transparency for easy observation.
- Easy de-molding.
- Flexible and skin feeling alike.
- Good heat resistance & aging-proofing.
- Excellent tension and tear strength.
- Low shrinkage & Long shelf life.



GTSIL-Platinum Series - Prototyping Specifications

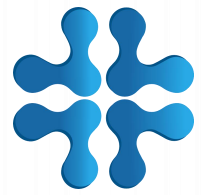
Model Code	GTSIL-PT 30	GTSIL-PT 35	GTSIL-PT 40	GTSIL-PHT 30	GTSIL-PHT 35	GTSIL-PHT 40
Hardness - Shore A	28-32	34-36	38-42	28-32	34-36	38-42
Viscosity - Cps	6000-8000	7000-9000	7500-9500	6000-8000	7000-9000	7500-9500
Mixing Ratio - %	1:1/10:1	1:1/10:1	1:1/10:1	1:1/10:1	1:1/10:1	1:1/10:1
Tear Strength - KN/m2	18-25	22-27	10-16	18-25	22-27	10-16
Tensile Strength - Mpa	6-8	6-8	6.5-8.5	6-8	6-8	6.5-8.5
Shrinkage - %	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
Elongation - %	400-600%	400-600%	400-600%	400-600%	400-600%	400-600%

Storage & Shelf Life

~12months, stored in a cool and dry place under room temperature 25centi degrees.

Notes

- we can do working time & curing time on basis of your requirement.
- Thixotropic agent is available for brushing way of operation.
- Want a free sample? - Just feel free to contact us.



GT Silicon

GTSIL-Platinum Series - Fabric Coating

Description

GTSIL-Platinum Series - Fabric Coating is a solvent-free, flowable two component RTV silicone rubber. After mixing Part A and Part B 1:1, the mixture will cure by an addition reaction at room temperature. The cure rate can be accelerated significantly by heat. It's especially been developed for fabric coating, such as cotton fabric, polyester-mixed cotton cloth, nylon cloth, flax woolen, insulating cloth, etc.



GTSIL-Platinum Series - Fabric Coating

Appearance

Part A: an odourless translucent liquid colloid.

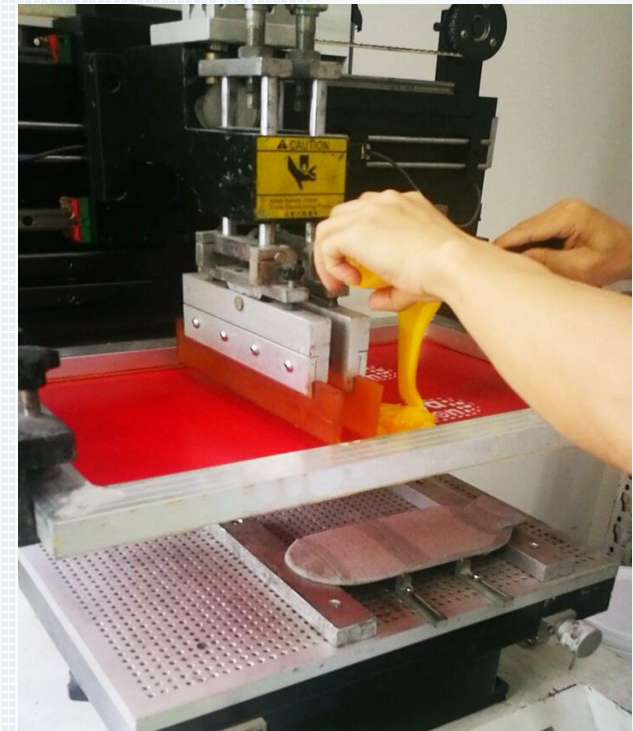
Part B: an odourless translucent liquid colloid.

Warm Tips

- Custom service on colors for Part A and Part B is available.
- Part A and Part B are both certified with certificates of MSDS, SGS, FDA and Cargo Transportation Test Report.
- COA is offered before shipment.

Features

- Good fluidity, easy to operate
- Platinum-based (odorless with FDA certified)
- Mixing ratio: 1:1 or 10:1
- Excellent tension and tear strength
- High performance in duplication
- Shrinkage almost zero (below 0.1)
- Excellent resistance to weather, temperature, aging, acid and aging-proofing.
- Very good resistance to high temperature and aging (resist -60°C to 250°C)



GTSIL-Platinum Series - Fabric Coating Specifications

Model Code	GTSIL-FC 15	GTSIL-FC 20	GTSIL-FC 25	GTSIL-FC 30
Hardness - Shore A	14-16	18-22	24-26	28-32
Viscosity - Cps	55000-65000	60000-70000	65000-75000	70000-80000
Mixing Ratio - %	1:1/10:1	1:1/10:1	1:1/10:1	1:1/10:1
Working Time -Secs	10-30secs	10-30secs	10-30secs	10-30secs
Curing Time - Hrs	1-2hrs	1-2hrs	1-2hrs	1-2hrs
Tear Strength - KN/m2	8-10	10-12	10-12	12-14
Tensile Strength - Mpa	3.5-4.5	3.5-4.5	4-5	4-5
Shrinkage - %	0.10%	0.10%	0.10%	0.10%
Elongation - %	400-600%	400-600%	400-600%	400-600%

Storage & Shelf Life

~12months, stored in a cool and dry place under room temperature 25centi degrees.

Notes

- we can do working time & curing time on basis of your requirement.
- Thixotropic agent is available for brushing way of operation.
- Want a free sample? - Just feel free to contact us.



Silicone Putty

Make an impression mold in minutes! GTSIL-SP silicone putty is a strong, flexible, food-grade mold-making material for plaster, concrete, wax, soap, low-melt metals, baking, chocolate, ice cubes, air-dry clay and resins. It's ideal for use with Casting Craft Clear Polyester Casting Resin and EasyCast Clear Casting Epoxy. It picks up tiny details, so it is excellent for small molds. The putty has a work time of three minutes and a cure time of 20 minutes. This two-component silicone putty is easy to use, odor free, nontoxic and FDA compliant. It is self-releasing, so you won't need a mold release agent for most applications. High heat range, up to 200°C.

Details:

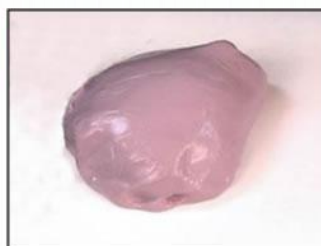
- 100gr, 200gr, 300gr.
- Nontoxic



Step 1



Step 2



Step 3



Step 4



Step 5



Step 6



GTSIL-SP Series - Appearance

Part A: an odourless colored solid colloid.

Part B: an odourless colored solid colloid.

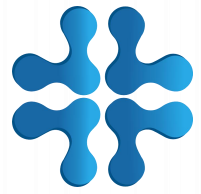
Warm Tips

- Custom service on colors for Part A and Part B is available.
- Part A and Part B are both certified with certificates of MSDS, SGS, FDA and Cargo Transportation Test Report.
- COA is offered before shipment.

GTSIL-SP Series - Features

- Strong and flexible, easy to operate
- Platinum-based (odorless with FDA certified)
- Mixing ratio: 1:1
- Easy de-molding
- Excellent tension and tear strength
- High performance in duplication
- Shrinkage almost zero (below 0.1)
- Excellent resistance to weather, temperature, aging&acid and aging-proofing.
- Very good resistance to high temperature and aging (resist -60°C to 250°C)





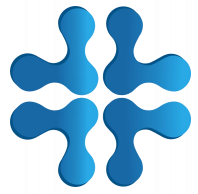
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GTSIL-SP Series - Specifications

Model Code	GTSIL-SP20	GTSIL-SP25	GTSIL-SP30	GTSIL-SP 35	GTSIL-SP 40	GTSIL-SP 45
Hardness - Shore A	19-21	24-26	29-31	34-36	38-40	44-46
Odour	Mint - Flavored			Mint - Flavored		
Mixing Ratio - %	1:1			1:1		
Operation Time	3'30" - 5'30"			3'30" - 5'30"		
Curing Time	30-40'			30-40'		
Tear Strength - KN/m2	3.2-3.5			2.6-2.8		
Tensile Strength - Mpa	3.0-3.2			2.6-2.8		
Shrinkage - %	NIL			NIL		
Elongation - %	100-200%			300-400%		
Vacuum Required	N/A			N/A		

Notes

- Colour indicator for mixing
- Extremely fast cure



GT Silicon

Electronic Potting Compound

Tinsil - Application

Tin-based electronic potting compound is especially developed for electronic potting and encapsulating applications, such as electronic components, electronic marketing tools, electronic equipment, etc.

Operation Method: by pouring or machine injection

Appearance

Part A: an odorless gray/red/black liquid colloid.

Part B: an aqueous liquid in transparent color.

Features

- 1.Flexible fluidity for easy pouring.
- 2.Strong Adhesion.
- 3.Good heat resistance.
- 4.Excellent insulation performance.
- 5.Water/dust/aging proof.
- 6.Good shelf-life.

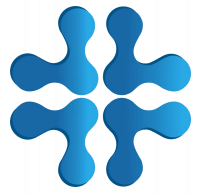


Electronic Potting Compound - Tinsil Specifications

Model Code - GTSIL	TE 10		TE 15		TE 50	
Appearance	Part A	Part B	Part A	Part B	Part A	Part B
	Transparent	Yellowish	Black	Yellowish	Red	Transparent/Yellowish
Hardness - Shore A	13-17		13-17		40-50	
Mixing Ratio - % by W.	10:1		10:1		100:3	
Mixed Viscosity -Cps	2500-3500		2500-3500		12000-18000	
Working Time-Mins	60-120mins		60-120mins		40-60mins	
Basically Cured, Hrs	3Hrs		3Hrs		3Hrs	
Perfectly Cured, Hrs	24Hrs		24Hrs		24Hrs	
Cementability	Good		Very Good		Very Good	
Thermal Conductivity[W(m.K)]	>0.2		>0.4		>0.4	
Dielectric Strength(kV/mm)	>25		>25		>25	
Dielectric Permittivity(1.2MHz)	3.0-3.3		3.0-3.3		3.0-3.3	
Volume Resistivity (Q • cm)	>1.0x10 ¹⁴		>1.0x10 ¹⁴		>1.0x10 ¹⁴	
Fire Resistance	UL94V1		UL94V1		UL94V1	

Storage & Shelf Life

~12months, stored in a cool and dry place under room temperature 25centi degrees.



GT Silicon

Electronic Potting Compound - Platsil - Application

Platinum Cure Electronic Potting Silicone Rubber is two parts with low viscosity, and it's mainly applied for the surface of PC(Poly-carbonate), PP, ABS, PVC, Metal, etc.; Outdoor protection for LED screen; Insulation, waterproof and bonding of general electronic components, Filling for LED, LCD electronic encapsulation and DC/DC module and circuit board which requires heat dissipation and high temperature resistance 10-4.

Operation Method: By pouring and machine injection

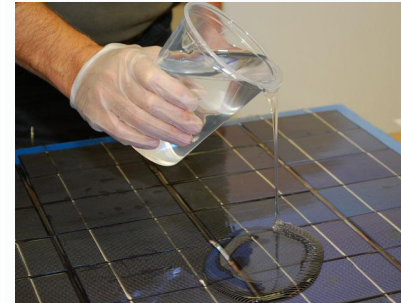
Appearance

Part A: an odorless gray/white/transparent/black/blue liquid colloid.

Part B: an odorless gray/white/transparent/black/blue liquid colloid.

Features

- Great fluidity
- Platinum based, environmental friendly, odorless and nontoxic
- Mixing ration: 1:1 and 10:1 are available
- Perfect adhesion
- Electrically isolative
- Optically clear
- Resistant to radiation and abrasion
- Heat-conducting
- Inherent flame resistance
- High resistance to high temperature and aging (resist -60°C to 250°C)



Electronic Potting Compound - Platsil Specifications

Model Code - GTSIL		PE 25	PE 35	PE 45	PE 50	PE 55	PE-T05	PE-T10	PE-T15	PE-T20	PE-T25
Appearance	Part A	Grey					Transparent				
	Part B	White									
Hardness - Shore A		24-26	34-36	44-46	48-52	54-56	4-6	8-12	14-16	18-22	24-26
Mixing Ratio - % by W.		1:1					1:1				
Mixed Viscosity -Cps		2000-3000	2000	3000	2000	3000	500				
Working Time-Mins		60-120Mins					60-120Mins				
Curing Time, Hrs		6-8Hrs					6-8Hrs				
Linear Expansibility [m/(m.K)]		<2.2X104					<2.2X104				
Thermal Conductivity[W(m.K)]		>0.8					>0.8				
Dielectric Permittivity(1.2MHz)		3.0-3.3					3.0-3.3				
Volume Resistivity (Q • cm)		1X1015					1X1015				
Fire Resistance		UL94V0					UL94V0				

Storage & Shelf Life

~12months, stored in a cool and dry place under room temperature 25centi degrees.

Silicone Additives

Thixotropic Agent

GTSIL - TX 03 is a perfect liquid material that serves a purpose as an additive for two-part liquid silicone bonding system. Added as a third component when linking part A to part B. During the cure cycle, silicone will tend to run off any partially vertical surfaces and accumulate on horizontal surfaces, the viscosity of silicone will become thicker and thicker. So, it will be great for you to make molds by brushing.

Features

- Preventing liquid silicone from running
- Helping to build silicone up to desired thickness in order to hold larger grade aggregate surfaces
- Reducing a risk of aggregate migration on the sloped surface
- Simple, easy to use
- Non Toxic & Environment friendly

Appearance

An odourless of transparent liquid.

What's the mixing ratio?

Normally, the mixing ratio is within 1%.

However, it depends on your requirements for pot life and curing time.



Silicone Additives

Platinum Ingredient/Water

Platinum is widely used as a catalyst for chemical reactions.

GTSIL - PI 05, a key ingredient in fertilizer, is a perfect liquid material that serves a purpose as an additive for two-part platinum liquid silicone curing system. GTSIL- PI 05 serves a fast curing time, which is more important, it helps to better the curing surface.

Features

- Improve an uncure / sticky surface
- Shortening a pot life
- Simple, easy to use
- Non Toxic & Environment friendly

Appearance

An odourless of transparent liquid.

What's the mixing ratio?

Normally, the mixing ratio is within 1%.

However, it depends on your requirements for pot life and curing time.

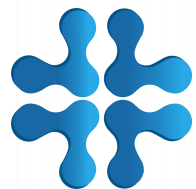




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Make a better life with magic silicones!



GT Silicon

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