

Product Guide

Adhesives

Potting & Encapsulating Compounds

Electronic Assembly

Thermal Management

Packaging Options

ADVANCED POLYMER MATERIALS Driving Evolution through Innovation









About Us

Epoxyset Inc. is a leading formulator and manufacturer of engineered epoxy, urethane, silicone, and UV cure polymer system as well as a full line of silicone

and non-silicone thermal greases. Our adhesives, potting and encapsulating compounds, coatings, and custom

formulated products are widely used in the electronic, medical, semiconductor,

fiber-optics, automotive, industries.

In addition to a standard product designed to meet a majority of demanding applications, Epoxyset specializes in custom formulations working closely with our customers to

design and manufacture a product that meets all its specifications. Providing consistent quality products with unparalleled customer service are our top priorities. We offer superior and confidential technical support to our clients. Rely upon our experienced chemists and engineers to assist you in finding solutions to any of your existing materials problems or demanding applications.

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SetWORX™ & EPOXIBOND Epoxy Structural Adhesives

SetWORX™ is a group of one and two component epoxy and urethane adhesives designed to provide the highest performance in bond strength and durability. Innovative SetWORX™ adhesives were developed with an eye on the future with many free of BPA (Bisphenol A) and tin. SetWORX™ is ready for the next generation of adhesive challenges. Available in easy to use "side by side" cartridges and syringes as well as standard bulk packaging.

| Product | Components | Viscosity, | Work Life, | Shear Strength, | Hardness | Color | Applications |
|----------------------|------------|------------|------------|-----------------|----------|-----------|--|
| | | cps | minutes | psi | | | |
| SetWORX 90 | 2 | 20,000 | 90 | 4500 | D-78 | Off-White | 90 minute work life, high strength, toughened, epoxy adhesive. High bond strength to a variety of substrates. Non-hazmat, BPA free |
| SetWORX 60 | 2 | 20,000 | 60 | 4500 | D-78 | Off-White | 60 minute work life, high strength, toughened, epoxy adhesive. High bond strength to a variety of substrates. Non-hazmat, BPA free |
| SetWORX 1510 | 2 | 25,000 | 15 | 3500 | D-78 | Off-White | Toughened, 15 minute epoxy. Bonds well to many common substrates. Exhibits superior performance, Non-hazmat, BPA free |
| SetWORX 05 | 2 | 10,000 | 5 | 2500 | D-85 | Clear | General purpose 5 minute epoxy. Strong bond to many substrates. Fast cure, non-sag version also available |
| EPOXIBOND EB-135 | 2 | 4,000 | 30 | 3100 | D-86 | Clear | Crystal clear industrial adhesive and potting epoxy. Low viscosity. Cures to a clear, hard polymer |
| EPOXIBOND EB-316M | 2 | 38,000 | 45 | 3200 | D-78 | Black | 1:1 high strength, flexible adhesive and sealant. Designed to bond to multiple substrates |
| SetWORX 411HP* | 1 | 1,000,000 | 30 (@80°C) | 4500 | D-84 | Grey | Toughened, crack resistant one Component epoxy adhesive with fast cure at high temperatures. Excellent adhesion to metals, ceramics, glass and plastics |
| SetWORX U-47MP | 2 | 13,000 | 60 | 2700 | D-68 | Opaque | A 2-part urethane adhesive. Bonds well to many substrates. Exhibits high bond strength to many plastics including PVC, ABS, Lexan™, and Ultem™. Non-tin urethane polymer |
| SetWORX UV-35G | 2 | 4,000 | 30 | 5000 | D-86 | Clear | UV/Epoxy hybrid system. Gels within seconds upon UV exposure and fully cures at ambient or elevated temperatures. UV-35G can be used as an adhesive or for small encapsulation applications. |

EPOXIBOND™ Optical Adhesives

EPOXIBOND optical adhesives are low viscosity, optically clear adhesives. Each product has been engineered for use in a variety of industries including fiber-optic, medical, and electronics industries.

| Product | Components | Viscosity, cps | Work Life, min | Cure Type | Hardness | Refractive Index (@589nm) | Spectral Transmission (500-900nm) |
|-------------|------------|-------------------|-------------------|-----------|----------|---------------------------------|---|
| EB-107LP-1 | 2 | 100-300 | 120 | Ambient | D-85 | 1.52 | >99% |
| EB-107LP-2 | 2 | 200-500 | >8 hrs | Ambient | D-82 | 1.53 | >99% |
| EB-119SP | 2 | 3000 | 360 | Heat | D-87 | 1.56 | >95% |
| EB-130M-1 | 2 | 600 | 30 | Ambient | D-85 | 1.52 | >99% |
| SetWORX-135 | 2 | 3100 | 30 | Ambient | D-86 | 1.54 | >99% |
| EB-177 | 2 | 200-300 | >12 hrs | Heat | D-92 | 1.52 | >98% |
| UV-8504E | 2 | 400-600 | NA | UV Light | D-75 | 1.57 | >98% |

EPOXIBOND Medical Adhesives

Epoxyset medical adhesives are designed for use in medical devices such as MRI devices, endoscopes, catheters, ultrasound probes etc. In addition to the products below, we custom manufacture adhesives for use in the medical device industry.

| Product | Components | Viscosity (cps) | Work Life, min | Shear Strength, psi | Hardness | Application |
|------------|------------|--------------------|-------------------|---------------------------|----------|--|
| EB-107LP-1 | 2 | 100-300 | 120 | 2400 | D-85 | Epoxy adhesive for use in ultrasound probes and endoscopes. |
| EB-107LP-2 | 2 | 200-500 | >8 hrs | 2300 | D-82 | Long work life epoxy for small potting applications and matching layer in acoustic technology. |
| EB-119SP | 2 | 3000 | 360 | 2200 | D-87 | Used extensively in ultrasound technology, endoscopy, non-UV cure needle bonding. |
| EB-130M-1 | 2 | 600 | 30 | 3000 | D-85 | Epoxy adhesive used in ultrasound probes and cardiac catheters, dental equipment |
| EB-135 | 2 | 4000 | 30 | 3100 | D-86 | Epoxy adhesive used for endoscopes, catheters, and ultrasound probes |
| EB-177 | 2 | 200-300 | >12 hrs | 1500 | D-92 | High temperature, low viscosity adhesive and potting material used in ultrasound probes, endoscopes, and hand held medical devices |
| UB-21 | 2 | 800 | 120 | 1280 | D-40 | Urethane adhesive used in medical imaging devices and pharmaceutical filters. |

ELECTRONICS ASSEMBLY

Epoxyset has built a reputation of providing superior excellence in products used for electronics and PCB assembly. Some common applications include underfills, glob top encapsulants, die attach adhesives, and dam-and-fill encapsulation products. Below are products used by manufacturers for these applications.

| | | | Underfill | Encapsulati | on | | |
|---------------|------------|------------|-----------------------|------------------|----------|--------|--|
| Product | Components | Viscosity, | Work Life, minutes | Shear Strength, | Hardness | Color | Applications |
| EB-119SP | 2 | 3000 | 360 | 2200 | D-87 | Amber | Capillary underfill, wafer level Assembly, photonics, fiber optic |
| EB-107LP-1 | 2 | 200-500 | 120 | 2400 | D-85 | Clear | Low viscosity, capillary action Underfill. |
| EC-M22LV-1* | 1 | 9000 | 12 hrs | 2000 | D-92 | Black | Low CTE underfill, fill material in dam-and-fill encapsulation |
| EC-M22LV* | 1 | 15,000 | 12 hrs | 2000 | D-92 | Black | Low CTE underfill, fill material in dam-and-fill encapsulation |
| | | | Glop Top | Encpasulati | on | | |
| EB-350-4T | 1 | >800,000 | 20 (@80°C) | 2900 | D-91 | Black | Thixotropic encapsulant. Also Excellent for use in screen printing applications |
| EB-350-3LV | 1 | 60,000 | 30 (@80°C) | 3500 | D-91 | Black | Medium viscosity, glob top Encapsulant. |
| EC-M22T-1* | 1 | 100,000 | 48 hrs | 2000 | D-92 | Black | Dam material in dam and fill encapsulation |
| UV-8509R | 1 | 15,000 | N/A | N/A | A-50 | Clear | UV-Cure, thixotropic paste Excellent for glop top and Connector seals. |
| | | | Die Atta | ich Adhesive | es | | |
| EO-24 | 2 | 3000 | >2 days | 3400 (die shear) | D-75 | Silver | Die attach, LED attach, quartz crystal attach, flip chip, substrate attach. |
| EO-98HT | 1 | 55,000 | >4 weeks | 3200 (die shear) | D-85 | Silver | Die attach, LED attach, substrate attach, microwave, LCD interconnect, photonics |
| EO-97M | 1 | 12,000 | >4 weeks | 3200 (die shear) | D-75 | Silver | Die attach, microwave, substrate attach, solder replacement |
| EB-403-1LV-T1 | 1 | 800,000 | 30 (@80°C) | 3600 (die shear) | D-90 | Black | Thermal management of low power or high power LEDs, thermal die attach, damming epoxy. |

ELECTRONICS ASSEMBLY

| | | | DAM-AN | ID-FILL (DAN | M) | | |
|---------------|------------|-------------------|-----------------------|------------------------|----------|-------|--|
| Product | Components | Viscosity, cps | Work Life, minutes | Shear Strength, psi | Hardness | Color | Applications |
| EB-350-4T | 1 | >800,000 | 20 (@80°C) | 2900 | D-91 | Black | Thixotropic encapsulant. Also Excellent for us in screen printing applications |
| EC-M22T-1* | 1 | 100,000 | 48 hrs | 2000 | D-92 | Black | Dam material in dam and fill encapsulation |
| EB-310T-4* | 1 | 200,000 | 1 hr | 1800 | D-88 | Beige | High viscosity, high thixotropy Epoxy adhesive for wire tacking, Dam material, and gasket Sealing. |
| UV-8509R | 1 | 15,000 | N/A | N/A | A-50 | Clear | UV-Cure, thixotropic paste Excellent for glop top and Connector seals, and dam Material. |
| | | | DAM-A | ND-FILL (FILI | L) | | |
| EC-M22LV-1* | 1 | 9000 | 12 hrs | 2000 | D-92 | Black | Low CTE underfill, fill material in dam-and-fill encapsulation |
| EC-M22LV* | 1 | 15,000 | 12 hrs | 2000 | D-92 | Black | Low CTE underfill, fill material in dam-and-fill encapsulation |
| EB-350M-7LV | 1 | 20,000 | 30 (@80°C) | 2700 | D-90 | Black | Low viscosity, one component Epoxy used for fill material in Dam-and-fill encapsulation. |
| EB-350-1LV-M2 | 1 | 25,000 | 20 (@80°C) | 2900 | D-91 | Black | Low viscosity, one component Epoxy adhesive for ferrite core Bonding or encapsulation of Small components or windings. |

^{*}Available as premixed and frozen only

EPOXIOHM™ Electrically Conductive Adhesives

EPOXIOHM electrically conductive adhesives are silver filled epoxy systems that offer varying cured and processing properties. These products are used for a variety of applications in the micro-electronic, medical, aerospace, and optical industries.

| Product | Components | Viscosity, | Work Life, minutes | Die Shear Strength, psi | Hardness | Volume Resistivity | Applications |
|----------|------------|------------|-----------------------|----------------------------|----------|-----------------------|--|
| | | СРЗ | illiates | Strength, psi | | (ohm-cm) | |
| EO-21 | 2 | 40,000 | 60 | 3000 | D-84 | <0.0004 | Die attach, microwave, solder replacement, LED attach, photonics, LCD interconnect, semiconductor |
| EO-21M-5 | 2 | 1500 | 180 | 1700 | D-75 | <0.0006 | Solder replacement, microwave, LCD interconnect, substrate attach, Low stress, photonics |
| EO-24 | 2 | 3000 | 2 days | 1400 | D-75 | <0.0004 | Die attach, LED attach, quartz crystal attach, flip chip, substrate attach, low stress, meets NASA outgassing |
| EO-30M-1 | 2 | Paste | 180 | 2000 | D-72 | <0.001 | MCM/Hybrid die attach, LED attach, Low stress, EMI/RFI shielding, semi- Conductor die attach, photonics. |
| EO-38M-3 | 2 | 35,000 | >1 day | 1700 | D-88 | <0.0004 | High temperature, photonics, LED Attach, substrate attach, microwave, LCD interconnect, die attach |
| EO-97M | 1 | 12,000 | >4 weeks | 1300 | D-89 | <0.0004 | Die attach, microwave, substrate Attach, solder replacement |
| EO-83M-2 | 1 | 14,000 | >4 weeks | 1600 | D-88 | <0.0002 | Die attach, microwave, substrate Attach, medical device, semi- conductor die attach, MEMS devices |
| EO-98HT | 1 | 55,000 | >4 weeks | 1200 | D-85 | <0.0004 | High temperature, photonics, LED Attach, substrate attach, microwave, LCD interconnect, die attach |

EPOXIBOND™ Low Expansion Adhesives

EPOXIBOND low expansion epoxies are engineered to have a low coefficient of thermal expansion (CTE) and low shrinkage. These products are ideal when bonding substrates with different CTE values.

| Product | Components | Viscosity, cps | Work Life, min | Shear Strength, psi | Hardness | Color | CTE (<tg) 10<sup="">-6/°C</tg)> |
|------------|------------|-------------------|-------------------|------------------------|----------|-------|----------------------------------|
| EB-301 | 2 | 100,000 | 60 | 2100 | D-91 | Beige | 32 |
| EB-309 | 2 | 70,000 | 100 | 2100 | D-92 | Green | 18 |
| EB-315 | 2 | 75,000 | 90 | 2000 | D-92 | Beige | 25 |
| EB-350-1LE | 1 | 30,000 | 20 (@80°C) | 2400 | D-91 | Black | 32 |
| EB-350-4T | 1 | >800,000 | 20 (@80°C) | 2900 | D-91 | Black | 34 |

EPOXICAST™ Potting & Encapsulating Compounds

EPOXICAST potting and encapsulating compounds are designed for a variety of processes and applications. Our products range in chemistries and properties to meet the demanding needs of our customers. Epoxyset potting compounds are used heavily in the electronics/microelectronics industries as well as lighting, medical, optical, and aerospace.

| Product | Components | Viscosity, cps | Work Life, min | Service Temperature | Hardness | Application |
|-----------------|------------|-------------------|-------------------|------------------------|----------|---|
| EC-1006 | 2 | 1800 | 120 | -55°C – 120°C | D-89 | General purpose epoxy encapsulating material. Designed for potting small or large electronic components. |
| EC-1006M-4 | 2 | 4000 | 120 | -55°C – 120°C | A-85 | Flexible epoxy potting compound with excellent impact resistance. Certified UL-94V0 flame retardant system. |
| EC-1012M/EH-20M | 2 | 3500 | 240 | -55°C – 160°C | D-91 | Epoxy potting material used in coil windings and linear motors. Excellent for use in RFI filters and controllers. |
| EC-1027E/EH-26E | 2 | 35,000 | 4 hrs | -55°C – 225°C | D-92 | Very high temperature rated epoxy potting material with excellent chemical and corrosion resistance. |
| EC-1015 | 2 | 3000 | >8 hrs | -55°C – 180°C | D-92 | Thermally conductive, low viscosity potting and encapsulating material. Can be used as a wet-winding/brushing compound for rotating or field coils which require high bond strength. |
| EC-1030FL | 2 | 20,000 | >8 hrs | -55°C – 200°C | D-50 | High temperature, flexible epoxy potting compound. Replaces silicones where higher bond strength is needed |
| EC-1207 | 2 | 9000 | 120 | -55°C – 125°C | D-76 | UL-94V0 certified product for high output manufacturing process. Simple 1:1 mix ratio system. Room temperature cure |
| EC-1850FT* | 2 | 50,000 | 100 | -55°C – 120°C | D-90 | Thermally conductive potting material that can be used with several curing agents to offer a wide variety of properties. EC-1850FT-LV is a lower viscosity version of EC-1850FT. |
| EC-1190 | 2 | 3,000 | 1 hr | -55°C – 150°C | D-86 | Low density, epoxy potting compound for potting electronic components with minimal weight gain. |
| EC-1106F-LD | 2 | 5000 | 120 | -55°C – 120°C | A-85 | Epoxy syntactic foam encapsulating material used in potting electronic components such as RFI filters, capacitors and coils. Density of 0.75g/cc. Adds very little weight to each component |
| EC-1031M-2 | 2 | 20,000 | 180 | -55°C – 125°C | D-78 | Easy to use, 1:1 by volume potting compound ideal for potting small transformers, capacitors and other electronic components. DOT non-regulated system. |

^{*} Available to be used with a variety of different curing agents for desired properties. Data shown above are typical when used with EH-9

SILCAST™ Silicone Potting Compounds

Silcast silicone potting compounds are designed for use in potting and encapsulating power supplies in the electronics industry. It is also used heavily in the LED/lighting industry as well.

| Product | Components | Viscosity, cps | Work Life, min | Service Temperature | Hardness | Application |
|-------------|------------|-------------------|-------------------|------------------------|----------|--|
| SC-454M-6 | 2 | 6000 | 45 | -55°C – 250°C | A-70 | Thermally conductive silicone potting compound used to encapsulate power supplies and heat sinks for LED lighting. |
| SC-501 | 2 | 6000 | 120 | -55°C – 200°C | A-62 | General purpose silicone potting compound used to power supplies such as transformers, capacitors, and connectors. |
| SC-553 | 2 | 4500 | 2 hrs | -55°C – 200°C | A-45 | Designed for electronic potting applications. A self-bonding, thermally conductive, low modulus material that is readily repairable. |
| SC-550LV-RT | 2 | 800 | 120 | -55°C – 200°C | A-55 | A room temperature cure version of SC- 550LV. Also UL-94V0 certified. |
| SC-417 | 2 | 400 | 30 | -55°C – 200°C | A-23 | A clear, room temperature cure silicone with low viscosity allows for flow around complex parts providing electrical insulation and shock resistance |

URASET Urethane Potting Compounds

| Product | Components | Viscosity, cps | Work Life, min | Service Temperature | Hardness | Application |
|--------------|------------|-------------------|-------------------|------------------------|----------|--|
| UC-2524 | 2 | 3000 | 60 | -55°C – 130°C | A-86 | A flame retardant, urethane potting compound used heavily in electronic potting applications such high voltage ignition coils. |
| UC-2521 | 2 | 3000 | 25 | -55°C – 125°C | D-50 | A machinable, urethane electrical potting compound. UC-2521 offers premium resistance to corrosive and environmental hazards, while providing electrical insulation. |
| UXP-052107-1 | 2 | 4000 | 12 | -55°C – 110°C | A-88 | Fast setting, polyurethane potting compound designed for potting battery packs, controllers, and coil windings. |
| UB-25 | 2 | 800 | 15 | -55°C – 110°C | A-55 | A two component, unfilled, low viscosity urethane. Provides excellent electrical insulation and environmental protection. |

THERMALLY CONDUCTIVE ADHESIVES

Epoxyset's thermally conductive adhesives offer superior heat dissipation for a wide range of electronic applications. Both one and two component systems are available for use. They include epoxies, silicones and elastomeric products. Special formulations designed for unusual service conditions are also available.

| Product | Components | Viscosity | Max Service Temp (°C) | Thermal Conductivity (W/mK) | Application/Comments |
|---------------|------------|-----------|--------------------------|-----------------------------------|--|
| EB-403-1LV | 1 | 250,000 | 230 | 1.4 | A highly filled, flowable epoxy adhesive that offers high thermal conductivity and excellent high temperature resistance. |
| EB-403-1LV-T1 | 1 | 800,0000 | 260 | 1.8 | Thermal management of low power or high power LEDs, thermal die attach, damming epoxy. Offers non-sagging, high temperature resistance, and a low coefficient of thermal expansion. |
| EB-403-1-ALAN | 1 | 800,000 | 230 | 2.4 | High conductivity epoxy for thermal management for laser diodes, photovoltaics, LED, and high power RF amplifiers. |
| EB-485 | 2 | 70,000 | 130 | 1.4 | Thixotropic, epoxy adhesive paste that is designed for bonding ceramics, metal, and heat sinks. It offers versatility, low stress bonds, and excellent thermal cycling properties. |
| EB-486 | 2 | 100,000 | 120 | 1.1 | High strength, 1:1 epoxy adhesive that cures at room temperature. Excellent for applications where heat dissipation is needed. |
| EB-316TC | 2 | 60,000 | 125 | 1.1 | High strength, 1:1 epoxy adhesive that cures at room temperature. Excellent for applications where heat dissipation is needed. |
| EB-127BN | 2 | 60,000 | 160 | 1.2 | High bond strength, toughened epoxy adhesive. Low Cl content and outgassing. Low viscosity for Potting applications. Good gap filling. |
| EB-430-1 | 2 | 80,000 | 250 | 1.0 | High temperature resistant, low ionic contrent epoxy adhesive for bonding and sealing up to 250°C. Easy to spread or dispense via automation |
| TGF-331 | 2 | 150,000 | 205 | 3.6 | 1:1 silicone thermal gap filler for low stress thermal TGF-331 offers a cured polymer that gives a mechanical bond to substrates with excellent heat dissipation. Used for thermal dissipation in electronic control units (ECU) of automotives. |

THERMALLY CONDUCTIVE POTTING COMPOUNDS

Epoxyset offers potting and encapsulating compounds that range in chemistries and physical characteristics to fulfill a variety of applications. Thermally conductive potting and encapsulating compounds are specially formulated to for high thermal conductivity, electrical insulation, and excellent handling properties.

| Product | Chemistry | Viscosity | Max Service Temp (°C) | Thermal Conductivity (W/mK) | Application/Comments | |
|--------------|-----------|-----------|--------------------------|-----------------------------------|---|--|
| EC-1006M-4 | 2 | 4000 | 120 | 0.6 | Flexible epoxy potting compound with excellent impact resistance. Certified UL-94V0 flame retardant properties. | |
| EC-1015 | 2 | 3000 | 180 | 1.2 | Thermally conductive, low viscosity potting and encapsulating material. Can be used as a wet winding/brushing compound for rotating or field coils which require high bond strength. | |
| EC-1015LV-RT | 2 | 2500 | 130 | 1.4 | Lower viscosity resin and room temperature cure version of EC-1015. | |
| EC-1850FT | 2 | 30,000 | 120 | 1.5 | Thermally conductive potting material that can bused with several curing agents to offer a wide variety of properties. EC-1850FT-LV is a lower viscosity version of EC-1850FT. | |
| EC-1207 | 2 | 9000 | 125 | 0.75 | UL-94VO certified product for high output manufacturing process. Simple 1:1 mix ratio system. Cures at room temperature. | |
| SC-454M-6 | 2 | 6000 | 250 | 1.4 | Thermally conductive silicone potting compound used to encapsulate power supplies and heat sinks for LED lighting. | |
| SC-550LV-RT | 2 | 1000 | 205 | 0.7 | UL-94V0 certified silicone potting material used to encapsulate small or large electronic components. | |
| SC-501 | 2 | 6000 | 200 | 1.9 | General purpose silicone potting compound used To power supplies such as transformers, capacitors and connectors. | |
| UC-2524 | 2 | 3000 | 130 | 0.8 | A flame retardant, urethane potting compound used heavily in electronic potting applications such as high voltage ignition coils. | |
| UXP-052107-1 | 2 | 4000 | 110 | 0.8 | Fast setting, polyurethane potting compound designed for potting battery packs, controllers, and coil windings. | |

SILICONE THERMAL GREASE

Epoxyset STG series are silicone based thermal greases engineered with special binding agents to reduce bleed and oil separation. Why choose Epoxyset silicone greases? Our silicone greases have a flowable matrix filling micro gaps and reduces contact resistance.

| Product | Color | Specific Gravity | Max Service Temp °C | Thermal Conductivity (W/mK) | Applications |
|----------|-------|---------------------|------------------------|-----------------------------|--|
| STG-40 | White | 2.2 | 205 | 0.8 | Standard silicone thermal grease. Direct Replacement of Dow Corning 340 and Wakefield 120. |
| STG-40FG | White | 2.2 | 200 | 0.8 | Food grade version of STG-40. Compliant With FDA regulations. |
| STG-44 | Black | 1.7 | 200 | 3.7 | High conductivity thermal grease with low bleeding and excellent thermal dissipation. |
| STG-51TC | Grey | 2.2 | 205 | 3.2 | High conductivity silicone grease with good flow and easy clean up. |

NON-SILICONE THERMAL GREASE

Epoxyset TG series are unique synthetic thermal greases engineered to provide low bleed and oil migration to prevent component contamination associated with silicone greases. They offer superior thermal conductivity and low thermal resistance with long term stability.

| Product | Color | Specific Gravity | Max Service Temp (°C) | Thermal Conductivity (W/mK) | Application |
|---------|--------|---------------------|--------------------------|-----------------------------------|--|
| TG-61 | White | 2.4 | 200 | 0.8 | Standard hydrocarbon thermal grease. Used in CPUs, thermistors, and thermocouple wells. |
| TG-62 | White | 2.4 | 200 | 2.0 | Standard, low cost non-silicone thermal grease Used in CPUs, RTD, thermistors, and Thermocouple wells. |
| TG-63 | Grey | 2.3 | 200 | 2.7 | High conductivity thermal grease for high heat generating power supplies. |
| TG-64 | Black | 1.7 | 200 | 3.7 | High conductivity thermal grease with low bleeding and excellent thermal dissipation. |
| TG-66 | Grey | 2.2 | 200 | 3.2 | Pure metal filled non-silicone thermal grease. Easy application, high conductivity, and easy Clean up. |
| TG-67 | White | 2.4 | 150 | 1.2 | Low cost non-silicone grease for use in moderate heat generating power supplies such as CPU, TEC modules, and CPU to heat sinks. |
| CTG-81 | Silver | 3.1 | 200 | 7.2 | Non-silicone, silver filled thermal grease with Extremely high electrical and thermal conductivity. |
| CTG-83 | Black | 1.35 | 200 | 2.3 | Low cost, non-silicone grease that has high thermal and electrical conductivity. |

HIGH TEMPERATURE THERMAL PRODUCTS

Epoxyset offers a line of specialty products that for unique applications that call for extreme temperature ranges. This mix of products includes high temperature thermal greases, thermal putties, silicone thermal gap fillers and non-curing conductive pastes.

| Product | Color | Specific Gravity | Max Service Temp (°C) | Thermal Conductivity (W/mK) | Application |
|-----------|--------|---------------------|--------------------------|-----------------------------|---|
| HTG-71 | White | 2.9 | 300 | 1.0 | A non-silicone thermal grease rated for use in application where temperature reach 300°C. |
| HTG-72 | White | 3.0 | 360 | 0.8 | Highly filled, non-silicone thermal grease. Metal Oxide fillers in a specialty non-silicone fluid does Not dry out at temperature over 300°C |
| HTG-72TC | Grey | 3.0 | 360 | 3.2 | Thermally conductive version of HTG-72. Has Same high temperature resistance but offers Higher conductivity and dissipation. |
| TCP-101HT | Grey | 2.2 | 200 | 3.2 | High temperature thermal putty. Designed to be Thermally conductive and hand moldable for Easy application. |
| TGF-331 | Blue | 2.6 | 205 | 3.6 | 1:1 silicone thermal gap filler for low stress thermal management. TGF-331 offers a cured polymer that gives a mechanical bond to substrates with excellent heat dissipation. The most common application is use in ECU for vehicles. |
| TGF-325 | Yellow | 2.7 | 200 | 1.8 | High viscosity, liquid gap filler with high conductivity and low stress on fragile electronic components. Recommended application include thermal management of ECU, CPU to heat sinks, and low stress dielectric potting. |

PACKAGING OPTIONS

Standard Packaging Options

Epoxyset's polymer compounds are packaged in a wide range of sizes and containers. Our versatile and cost effective packaging system employs metal, plastic and glass containers of various sizes. Our standard packaging options are pint, quart, gallon, 5-gallon, and 55-gallon containers. Special packaging is also available on select products and upon request.

Premixed & Frozen Packaging

Almost all of Epoxyset compounds are available in premixed and frozen syringes or cartridges. Easy to use, these systems require no mixing and cure at room temperature. They are available in sizes of 1cc, 3cc, 5cc, 10cc, 30cc, and 55cc syringes as well as 6oz, 10oz, and 32oz cartridges. Many companies offer premixed and frozen packaging but often send material to a separate packaging company to have it done. This increases overhead costs and leaves takes quality of the product out of the manufacturer's control. Epoxyset does all premixed and frozen packaging inhouse which allows us to keep costs down and ensure the quality of each and every batch the ships out of our facility.



Dual Cartridge Systems

Epoxyset 2-part dispensing systems are ideal for high efficiency and high volume use. They are safe and easy to handle requiring no clean up, no weighing, and no mixing. The standard system consists of the dual cartridge, static mixing nozzle, and the dispensing gun (sold separately). Sizes vary from 50mL to 1500mL cartridges in 1:1. 2:1. 4:1, and 10:1 ratios.



Special Packaging Options

Epoxyset has built itself on putting customer needs first. That means doing our best to make the customer's job easier. Beyond the above packaging options, many Epoxyset products are available in other popular packaging options including Semco® and Techon® cartridges, Semkits®, burst puches, and divider pouches. Inquire with Epoxyset for the best packaging option for your company or application.



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