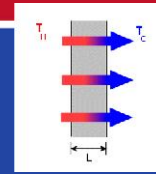
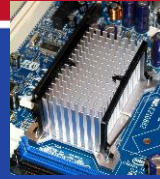




Graphene Enhanced Heat Transfer Pastes



Heat transfer pastes, also called thermal grease or thermal compound, are substances used to promote better heat conduction between two surfaces and are commonly used between a microprocessor and a heatsink. The top surface of most microprocessors is not perfectly flat. Some have microscopic grooves and others might even have a slight curve, which produces air gaps between the microprocessor and the heatsink and reduces the cooling performance of the heatsink. The air gaps are filled by applying a thin layer of heat transfer paste to the top of the microprocessor and the base of the heatsink.

Most high performance heat transfer compounds are formulated using high thermal conductivity metals. Most of the time these metals are also electrically conductive, which can have disastrous consequences due if accidentally introduced to electrical circuits.

Graphene has extremely high thermal conductivity. When combined with the correct liquid carrier and other additives a graphene based heat transfer paste can meet, and exceed, the thermal conductivity of metal based thermal compounds without the high electrical conductivity. Syn-Tech can also supply high performance heat transfer pastes with the attributes of high thermal and electrical conductivity if the application requires it.

Let us formulate a graphene enhanced heat transfer paste that will meet your specific applications requirements.

Our Expertise Syn-Tech Ltd.'s product line has evolved products that satisfy applications of many types. Experience and in-house testing facilities have generated the knowledge to create and modify new and existing products to perform under rigorous demands. Contact our offices for assistance in lubricant selection.