Orcus Technology

Thermaphase Technology

Thermaphase is the ultimate phase change material (PCM) for thermal interface applications. This material was developed over a period of several years of intensive research on particle morphology, laminar flow between flat surfaces, surface chemistry, the rheology of viscoelastic compounds, absorption, organo-metallic compounds, solid-liquid interfaces, ... The researchers who worked on the development of these materials have an average career experience of 31 years and have been involved in materials science for most of their lives.

ORCUS materials have found applications as varied as Interplanetary Space Probes, Deep Oil Drilling Metrology, Nuclear Sub Electronics, guided missiles, electric vehicles, ion deposition systems, beer coolers, nuclear radiation studies, automotive electronics, computers, cellular phone systems, electronic games, power supplies, railway and subway equipment, thermal coolers, motion control systems, DC/DC converters, thermoelectric devices, heat sinks, heat pipes, heaters, temperature controllers, magnetic control systems, and many more.

ORCUS Free Standing Film materials have lower thermal resistance at lower closure force than any product on the market. Thermaphase was the first and the original Free Standing Film material. Its thermal performance has become the standard to which other products are compared. Other products claim low thermal resistance but require high closure forces. This is usually masked behind test methods that require very high closure forces and highly polished test blocks which are unavailable with real-world electronic components.