Thermal Interface Materials (TIMs)

Metal TIMs have higher thermal conductivity than non-metals, including greases.

Keys to deciding the best metal TIM include:

- Thermal conductivity requirements
- Compressibility/pressure available
- Operating temperature of the device

Advantages of metal TIMs:

- **No pump-out or bake-out, as with thermal greases**
- **No surface preparation is required and clean-up is easy**
- **Available in standard and custom shapes and thicknesses**
- **Heat-Spring® pattern gives better contact between surfaces to eliminate air voids**

Contact our engineers: **askus@indium.com**
Learn more: **www.indium.com**

All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

Form No. 99503 R1

INDIUM® CORPORATION®

Thermal Interface Materials (TIM)

Metal TIMs available:

- Solder TIMs: Pure indium, InAg, flux-coated available
- Compressible TIMs: Heat-Spring®
- Liquid Metal TIMs: GalliTHERM™ Ga-based liquid metal and liquid metal paste
- Phase Change TIMs: Applied as a solid and the heat source changes the physical state of the TIM to a liquid metal

Metal TIMs for burn-in applications

Because of the high thermal conductivity of 86W/mK, indium is ideal for burn-in and test applications. Pure indium can be clad with a thin aluminum layer (on the side facing the DUT) to prevent the indium from adhering to the surface.

Contact our engineers: **askus@indium.com**
Learn more: **www.indium.com**

All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

Form No. 99503 R1

INDIUM® CORPORATION®