Recommendations (In, InSn, Sn+)
Indium Corporation’s patented Heat-Spring® preforms improve contact between two surfaces for more uniform thermal conductivity. Each Heat-Spring® pattern was designed for specific applications, which are described below.

Heat-Spring® HSD
- Recommended for smaller interfaces with flat, smooth, and parallel surfaces (greater than 0.002” non-planar)
- Minimum thickness of 0.004” (100µm)

Heat-Spring® HSHP (High Profile)
- Recommended for applications that use an extruded, unfinished heat-sink, or field-fit plates that have surface scarring or machine marks
- High profile version of HSD pattern with 2X the compressibility
- Best for non-planar surfaces of 0.002” to 0.005” (50-125µm)
- Minimum thickness of 0.006” (150µm)

Heat-Spring® HSK
- Recommended for burn-in applications where multiple insertions are required
- Provides uniform contact with low thermal resistance for high-density heat loads
- Clad with a thin diffusion barrier which serves as the contact surface and eliminates staining and cracking
- Minimum thickness of 0.010” (250µm)

Diffusion Barriers – HSK Recommended
- Al-clad Heat-Springs® are best used in applications where there is sensitivity to sticking and staining
- Diffusion barrier experiences minimal deformation and serves as a planar contact barrier

Packaging
- Custom tray
- Tape & reel

Popular Alloys
Heat-Springs® are available in a variety of alloys, and these are the most popular:
- 99.99 Indium
- InSn
- InAg
- Sn+

Pressure
To optimize the contact between the two thermal interfaces, pressure is required for each of the Heat-Springs® patterns.
- Indium-contained alloys need a minimum of 40PSI
- Sn+ needs a minimum of 100PSI

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

From One Engineer To Another®
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