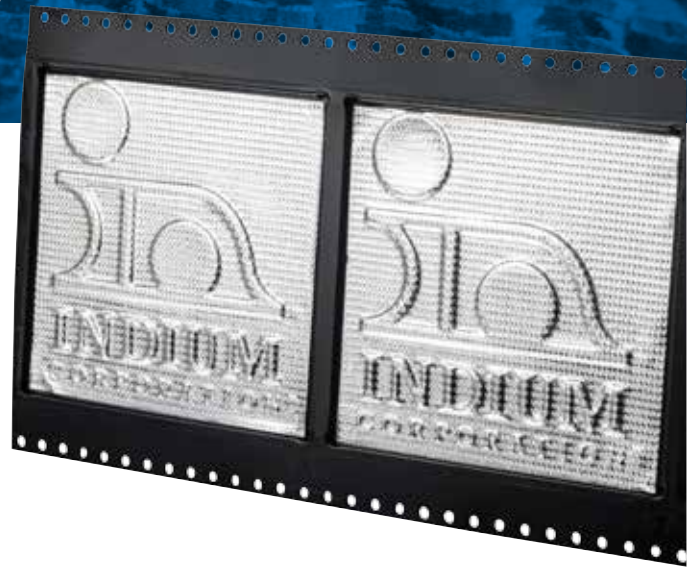


THERMAL INTERFACE HEAT-SPRING®



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

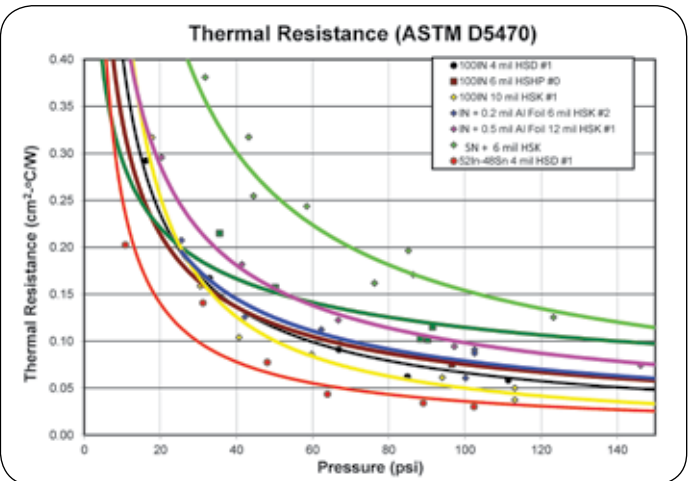
- Recommended for burn-in applications where multiple insertions are required
- Provides uniform contact with low thermal resistance for high-density heat loads
- Clad with a thin diffusion barrier which serves as the contact surface and eliminates staining and cracking
- Minimum thickness of 0.010" (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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Form No. 98882 (A4) R1

