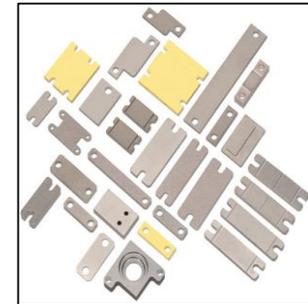
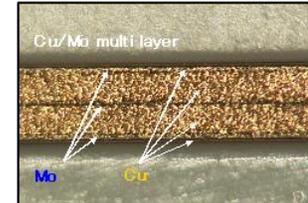


Cu-Mo Laminates, Super CMC

| Material | Density | | | | TTL Thickness | Coefficient of Thermal Expansion [$10^{-6}/K$] | Thermal Conductivity [W/mk] ξ | Thermal Conductivity [W/mk] $\xi\eta$ |
|-------------------|----------------------|-----|-----|-----|---------------|--|-----------------------------------|---------------------------------------|
| | [g/cm ³] | Cu | Mo | Cu | | | | |
| Cu-Mo-Cu | 9.9 | 13% | 74% | 13% | | 5.7 | 170 | 200 |
| Cu-Mo/Cu-Cu (CPC) | 9.3 | | | | | 7.0 - 8.5 | 250 | 300 |
| S-CMC | 9.1 | | | | | 5.9-7.4 | 290+ | 340+ |
| 5 Mil | v5.9 | | | | 5.6 | 5.9 | 205 | 265 |
| | v7.5 | | | | 5.0 | 7.4 | 290 | 340 |
| 7 Mil | v5.9 | | | | 8.0 | 5.9 | 205 | 265 |
| | v7.5 | | | | 7.7 | 7.5 | 295 | 345 |
| 10 Mil | v5.9 | | | | 11.4 | 5.9 | 205 | 265 |
| | v7.5 | | | | 10.0 | 7.4 | 290 | 340 |
| 20 Mil | v5.9 | | | | 20.0 | 5.9 | 210 | 270 |
| | v7.5 | | | | 20.0 | 7.4 | 290 | 345 |
| 40 Mil | v5.9 | | | | 39.4 | 5.9 | 205 | 265 |
| | v7.5 | | | | 39.4 | 7.4 | 290 | 340 |


Heat Sinks - Various Materials

| Material | Density [g/cm ³] | Thermal Conductivity [W/mk] | | Thermal Expansion [$10^{-6}/K$] |
|--------------------------------|------------------------------|-----------------------------|-------|-----------------------------------|
| | | 20°C | 100°C | |
| AlN | 3.3 | 180 | 150 | 4.5 |
| Al ₂ O ₃ | 3.8 | 25 | 17 | 6.7 |
| BeO | 2.9 | 285 | 180 | 7.6 |
| Al-SiC* | 2.7-3.2 | 80-200 | - | 6.8-12.0 |
| Fe-Ni-Co | 2.4 | 17 | 17 | 5.3 |
| Si | 2.3 | 151 | - | 4.8 |
| GaAs | 5.3 | 54 | 34 | 5.8 |
| Mo | 10.2 | 142 | 135 | 5.5 |
| W | 19.3 | 165 | 152 | 4.5 |
| Cu | 8.9 | 398 | 393 | 17.1 |

Our Mission

To be your partner of choice, always trying to understand and deliver what will make you successful.

Contact Us:

Sales
 Tel. +1-858-271-1993
Sales@santier.com