

Material properties of Ti-48Al-2Cr-2Nb for simulation

In this section the thermophysical properties of the bulk material of Ti-48Al-2Cr-2Nb implemented for the single layer simulation are listed [1].

Table 4. Material properties of Ti-48Al-2Cr-2Nb.

Density at 323 K [Kg/ mm ³]	4.18
Solidus temperature [K]	1737.5
Liquidus temperature [K]	1800
Latent heat [KJ/kg]	377

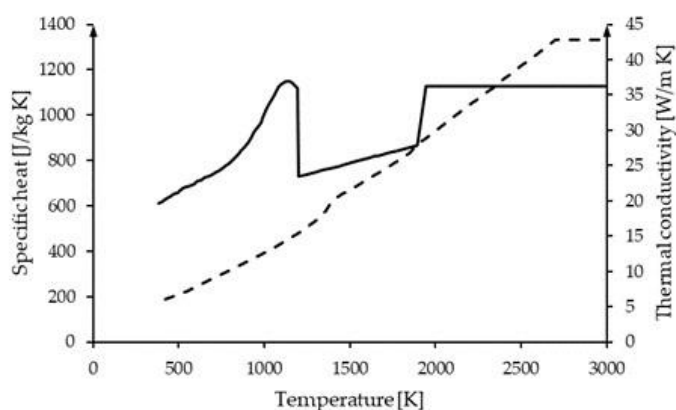


Figure 6. Specific heat and thermal conductivity of Ti-48Al-2Cr-2Nb.

References

- [1] Cagran C, Wilthan B, Pottlacher G, Roebuck B, Wickins M, Harding RA. Thermophysical properties of a Ti-44%Al-8%Nb-1%B alloy in the solid and molten states. *Intermetallics*, 2003. doi:10.1016/S0966-9795(03)00175-4.