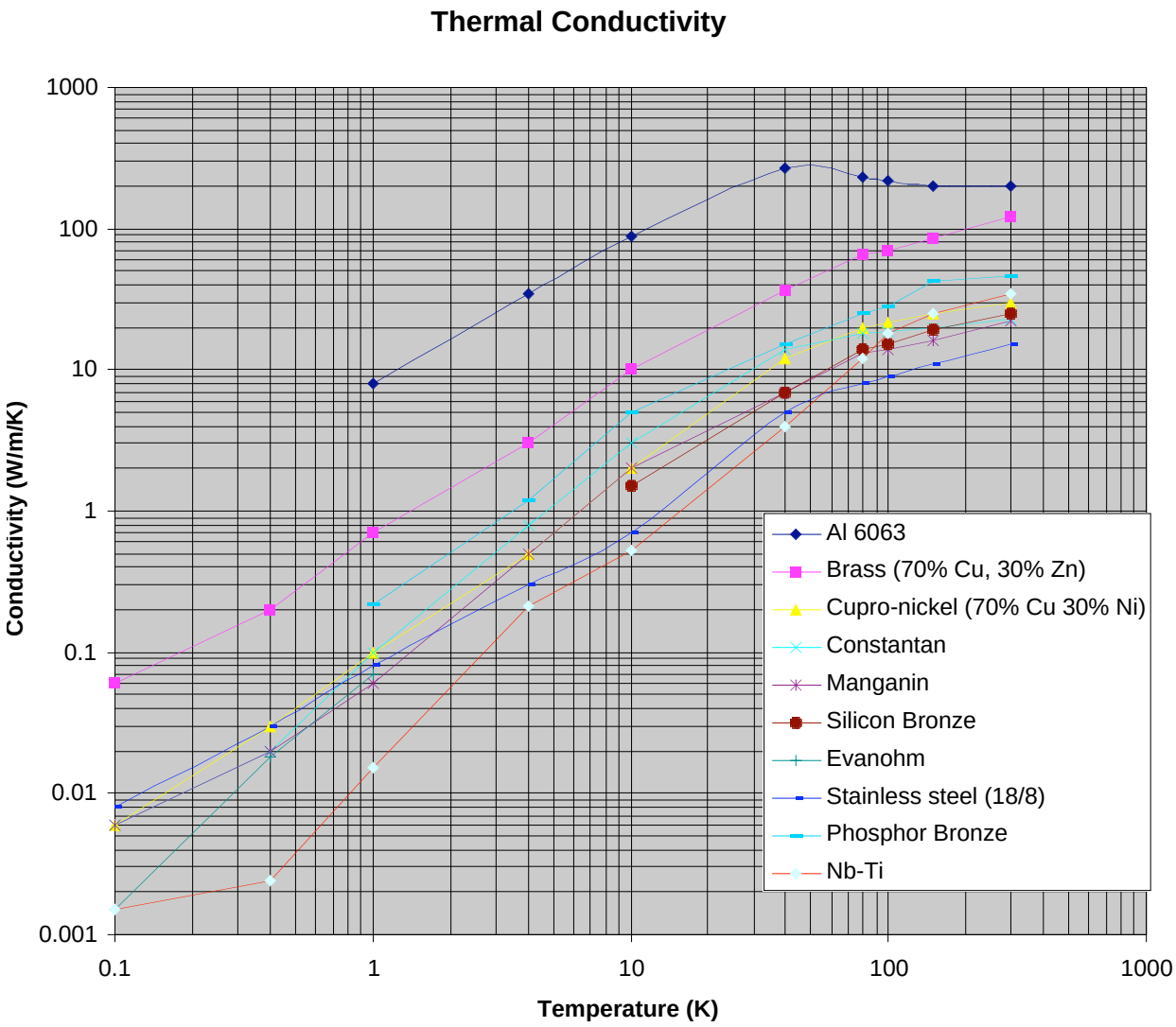

Integrating the thermal conductivity from 0K allows heat leaks to be calculated as follows

(See R. L. Garwin Rev. Sci. Instrument. 27 (1956) 826) where the geometric factor is the integral of in the inverse of the cross-sectional area as a function of the distance from one end of the wire to the other.

For a constant cross-section wire we simply have —. The thermal potential is given by: