

Material Properties

This appendix of material properties should be useful for initial comparison studies. For precise values several resources are recommend in a later section.

A good resource has been provided by the IAEA[1].

Table 1: Basic Thermal Properties[1]

Material	Conductivity W/cmK	Heat Capacity K/W/g	Melting Point °C	Boiling Point °C
UO ₂				
UN				
U metal				

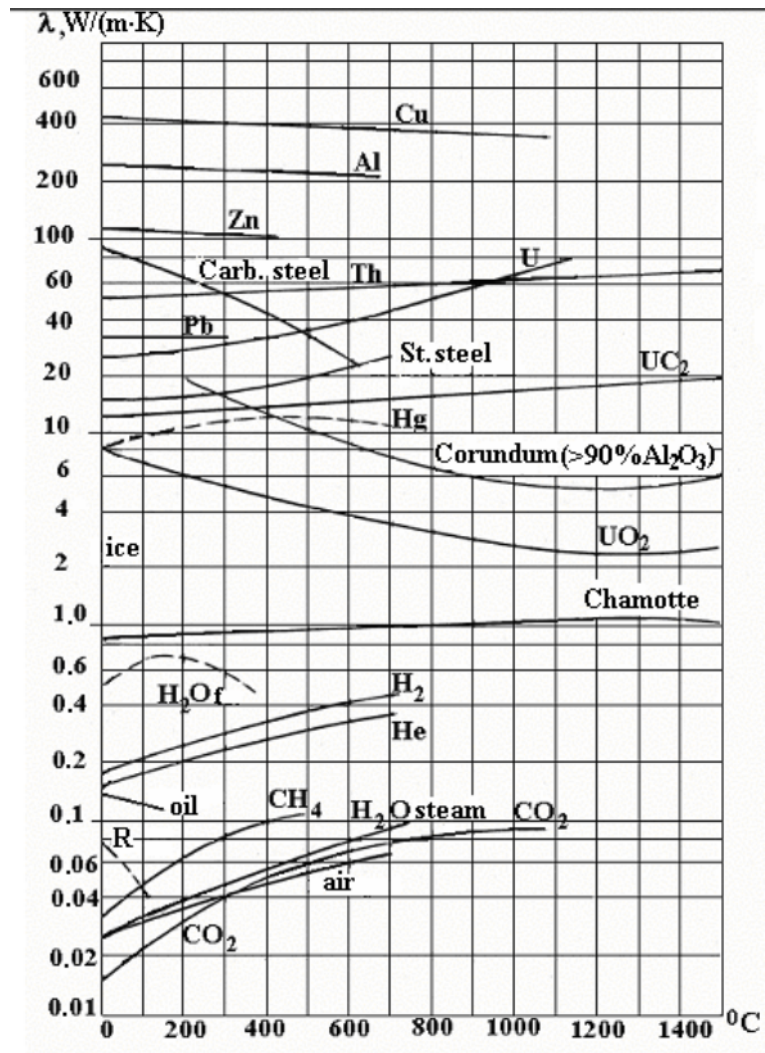


FIG. 1.2. Thermal conductivity of various materials at 0.1 Mpa.

Bibliography

- [1] IAEA, “Thermophysical properties of materials for nuclear engineering: a tutorial and collection of data.” Available online, 2008.