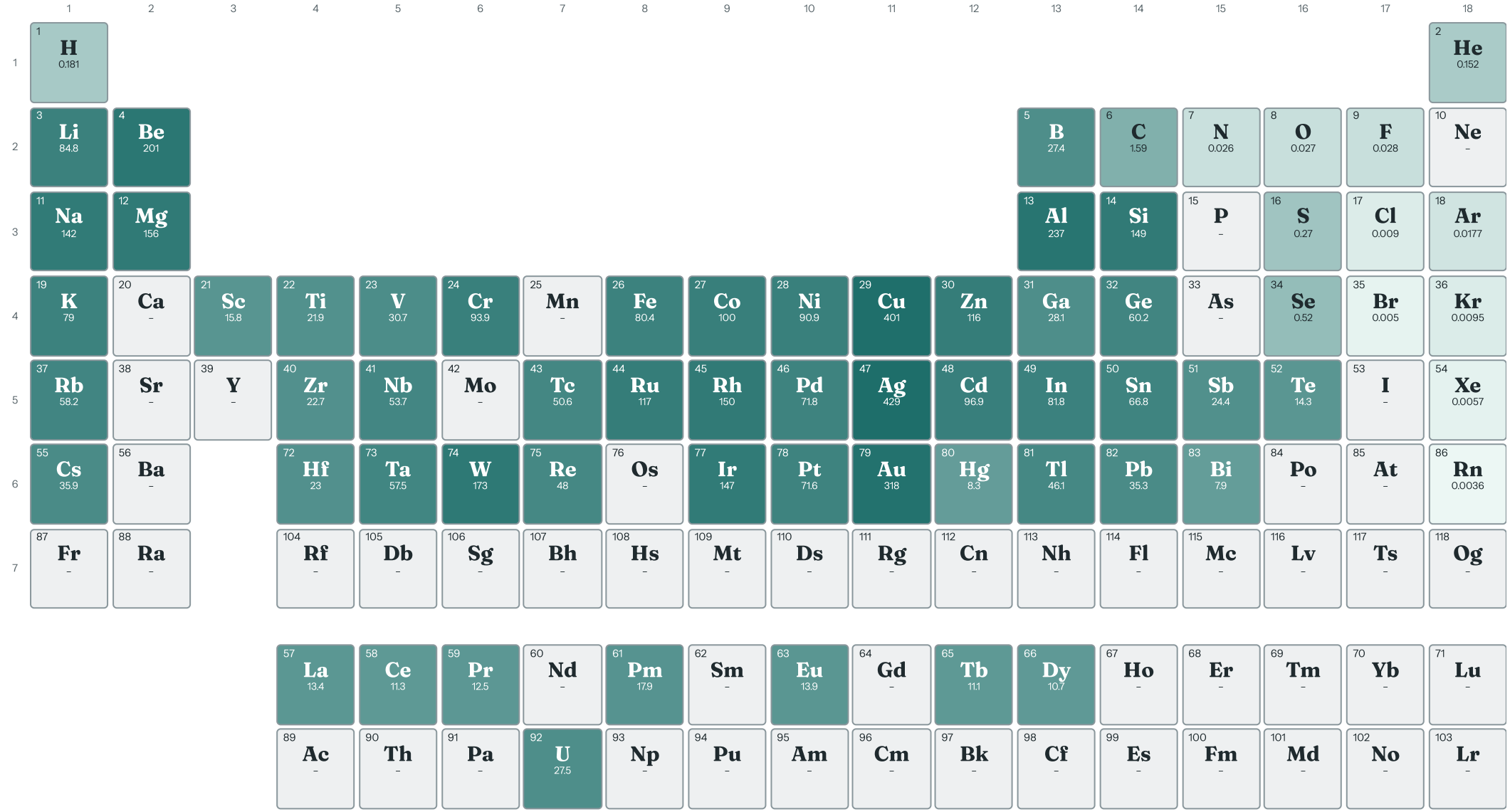
Periodic Table of Thermal Conductivity



https://periodictable.page/

Periodic Table PDF: Thermal Conductivity Heat Map: notes

About this sheet

Every element shaded by thermal conductivity in W/m·K, on a logarithmic scale, so the poor and good conductors can be compared. The printed value is on each tile and tiles with no data are grey. The highest is silver (429) and the lowest is radon (3.6×10^{-3}).

Best for

Comparing how well elements conduct heat, and seeing why metals are used for cookware and heat sinks.

Printing

Heat maps rely on shading, so print in color. In grayscale the darker tiles still read as higher values.

What the data shows

66 of the 118 elements have a value for thermal conductivity, so 52 tiles are grey. The three highest are silver (429), copper (401) and gold (318) and the three lowest are radon (3.6×10^{-3}), bromine (5×10^{-3}) and xenon (5.7×10^{-3}), all in W/m·K.

Averaged by family, the transition metals sit highest (111.5 W/m·K) and the halogens lowest (0.014 W/m·K).

The median element is 33 W/m·K, so half the elements fall below that shade.

How the table is organised

Atomic number counts the protons in an atom's nucleus and fixes each element's place in the table. Moving down a group adds a new electron shell, so atomic radius grows and metallic character increases.

More periodic table PDFs are free to download at **https://periodictable.page/periodic-table-pdf/**.