

Stefan's Law

The spectrum of radiation emitted by a solid material is a continuous spectrum, unlike the line spectrum emitted by the same material in gaseous form. The peak frequency of the emitted spectrum increases with the temperature of the solid body, as does the total power radiated.

Definition : According to the Stefan-Boltzmann law, the total power radiated by an ideal emitter (perfect blackbody) is proportional to the fourth power of the absolute temperature.

$$P = A\sigma T^4$$

Where ,

- P** = total power radiated from the blackbody
- A** = surface area of the blackbody
- σ** = Stefan-Boltzmann constant
- T** = Absolute temperature of the blackbody

To generalize ,

$$P = \epsilon A\sigma T^4$$

Where , **ε** is the emissivity

And ,

- ε** = 1 for black body
- ε** < 1 for grey bodies (not perfect blackbody)

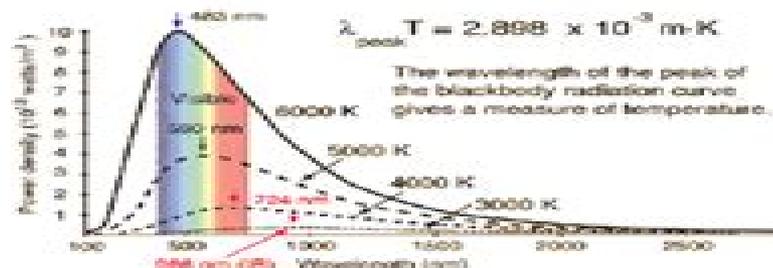
Wien's Displacement Law

When the temperature of a blackbody radiator increases, the overall radiated energy increases and the peak of the radiation curve moves to shorter wavelengths. When the maximum is evaluated from the Planck radiation formula, the product of the peak wavelength and the temperature is found to be a constant.

$$\lambda_{peak} T = 2.898 \times 10^{-3} \text{ mK}$$

This relationship is called **Wien's displacement law** and is useful for the determining the temperatures of hot radiant objects such as stars, and indeed for a determination of the temperature of any radiant object whose temperature is far above that of its surroundings.

(2)



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