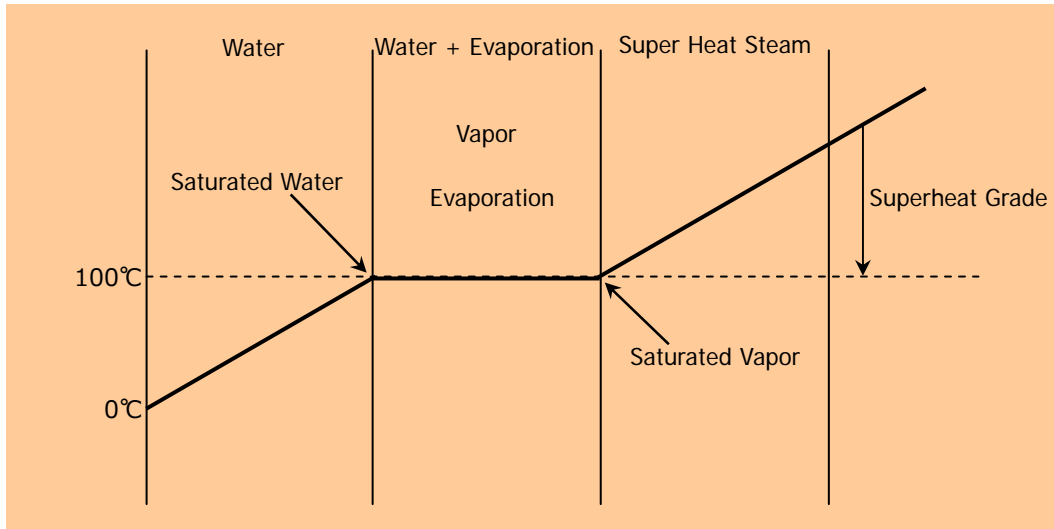


Characteristic Feature of Super Heat Steam

1. What is Normal Pressure Super Heat Steam?

Saturated Water Vapor heated in addition in a normal pressure becomes colorless and transparent inactive gas with very high temperature.

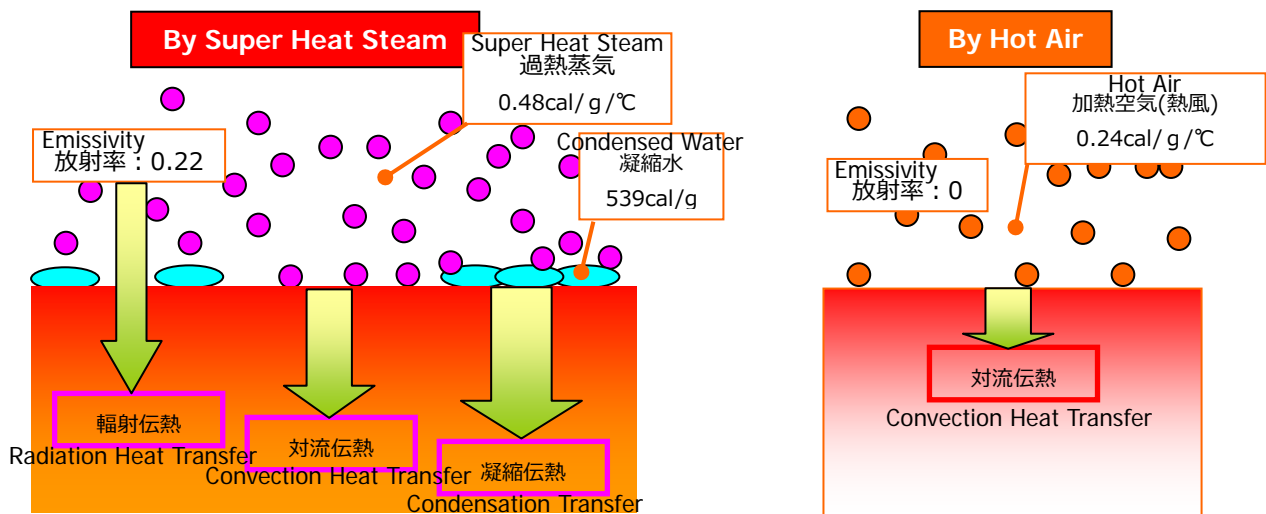
◆ Water state and Super heat Steam



※ Superheat Grade = Super Heat Steam Temp – Saturated Vapor Temp

2. Heating Characteristic of Normal Pressure Super Heat Steam

◆ Comparison of Super Heat Steam and Hot Air



※ While the Hot Air has only the Convection Heat Transfer from the surface of the Heated Object, Super Heat Steam has the complex Heat Transfer action by Radiation, Convection, and Condensation. With the low-oxygen atmosphere, Super Heat Steam has high efficiency for Heating.

3. Characteristic Summary

- High Temperature in normal pressure. No license is necessary for handling. (Safe and Easy Handling)
- Comparing to other heat source, heating efficiency is very high due to the complex Heat Transfer Action. (about 3 ~ 5 times more than Hot Air's efficiency)
- As the heat condenses at the low temp part preferentially, uneven heating can be suppressed and uniform heating is possible.
- Remarkable effect of component extraction from the heated object.
- Because of the low-oxygen state, the inactive process with oxidation suppressed condition can be possible.
- Low-oxygen atmosphere has very low risk of ignition or explosion.
- Once the temp gets lower, steam goes back to water state. Thus dissolved component is easy to collect.
- Resolution of chemical agents such as Dioxine or PCB and so on is possible.