

Temperature and the whole sample

Name the quantity before making a claim about energy.

1 · SYSTEM AND MATERIAL

Sample A: Sample B:

2 · TEMPERATURE

Average particle kinetic-energy state, in this model.

3 · WHOLE-SAMPLE INTERNAL ENERGY

Amount of matter also matters; equal T is not equal total U.

4 · EVIDENCE AND LIMIT

Same material and phase? Drawing to scale?

No exact joule value without further model information.