

ABSORPTIVITY

Meaning: Absorptivity is the measure of a material's ability to absorb thermal energy from its environment.

1. The absorptivity of a material determines how much thermal energy it can absorb from its surroundings.
2. Researchers measured the absorptivity of various coatings to enhance solar panel efficiency.
3. High absorptivity materials are often used in passive solar heating applications.
4. The absorptivity of a black surface is typically higher than that of a white surface.
5. Understanding the absorptivity of different substances is crucial in designing energy-efficient buildings.
6. The laboratory tests confirmed that the new paint had improved absorptivity compared to conventional options.
7. In optics, absorptivity plays a key role in the behavior of light as it interacts with different mediums.
8. The absorptivity of the glass used in the greenhouse significantly impacts plant growth and energy costs.
9. Absorptivity can be influenced by factors such as temperature and wavelength of the incoming radiation.
10. Engineers often calculate the absorptivity of materials to ensure optimal performance in thermal systems.

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