

---

## AHTF<sup>®</sup> - Advanced Heat Transfer Fluid Solutions

### What is Nanotechnology?

Nanotechnology for fluids is new. How new? Well, research first began in 1873. Yes, early research discovered that suspending small metallic particles in a fluid dramatically increased heat transfer efficiency. However, science and technology did not have the expertise, machinery or instruments to successfully develop a nanoparticle reliably. That is until now.

Nanotechnology is *"the manipulation of matter on an atomic and molecular scale"*. What does that mean? It means science now has the ability to make previously understood materials behave and perform in an engineered and programmed manner. Nanotechnology continues to be changing industries such as the pharmaceutical industry with its new targeted drugs, agriculture with genetically engineered fruits and vegetables, and solar power with photovoltaic paints.



Nanoscale? How small is a nanometer? One nanometer is one billionth of a meter. What does that mean? Here is an interesting explanation.

