# What is magnetic water? The 1-0-2 properties of water from

Magnetic water or magnetic liquid is a liquid that becomes highly magnetized in the presence of a magnetic field because it contains nanoparticles of magnetite (a ferromagnetic mineral with the chemical formula Fe3O4).

In simple terms, magnetic water is composed of particles that are usually ferrous compounds such as magnetite or nanoscale hematite suspended in a liquid containing it, such as an organic solvent or water.

Because it is more easily magnetized than the surrounding air, the magnetic water is drawn out along the magnetic field lines leading to the formation of spike-like tops and bottoms. However, the elongation of magnetic water is limited by gravity and surface tension.


Magnetic water was created for use as rocket fuel by NASA's Steve Papell in 1963. At that time, magnetic water was mixed with liquid fuel and drawn towards the ignition system by an external magnetic field.

Currently, magnetic water has been widely applied in many fields from technology and space exploration to medicine and art.

Magnetic water may appear around you. The most common are in computer hard drives, where they are used to seal the insides of devices to help protect delicate components from dust and dirt.

Magnetic water has a very high thermal conductivity. People have 'take advantage of' their heat transfer properties to apply in many devices. For example speakers, where magnetic water is used to cool the voice coil. In speakers, when the voice coil vibrates, it produces sound but also creates unwanted heat. The magnetic water then absorbs the heat around that coil and moves towards the radiator to be replaced by cooler magnetic water.

Because magnetic waters have different images and properties from most other materials, they are also used by artists to create unique and impressive works of art.

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