

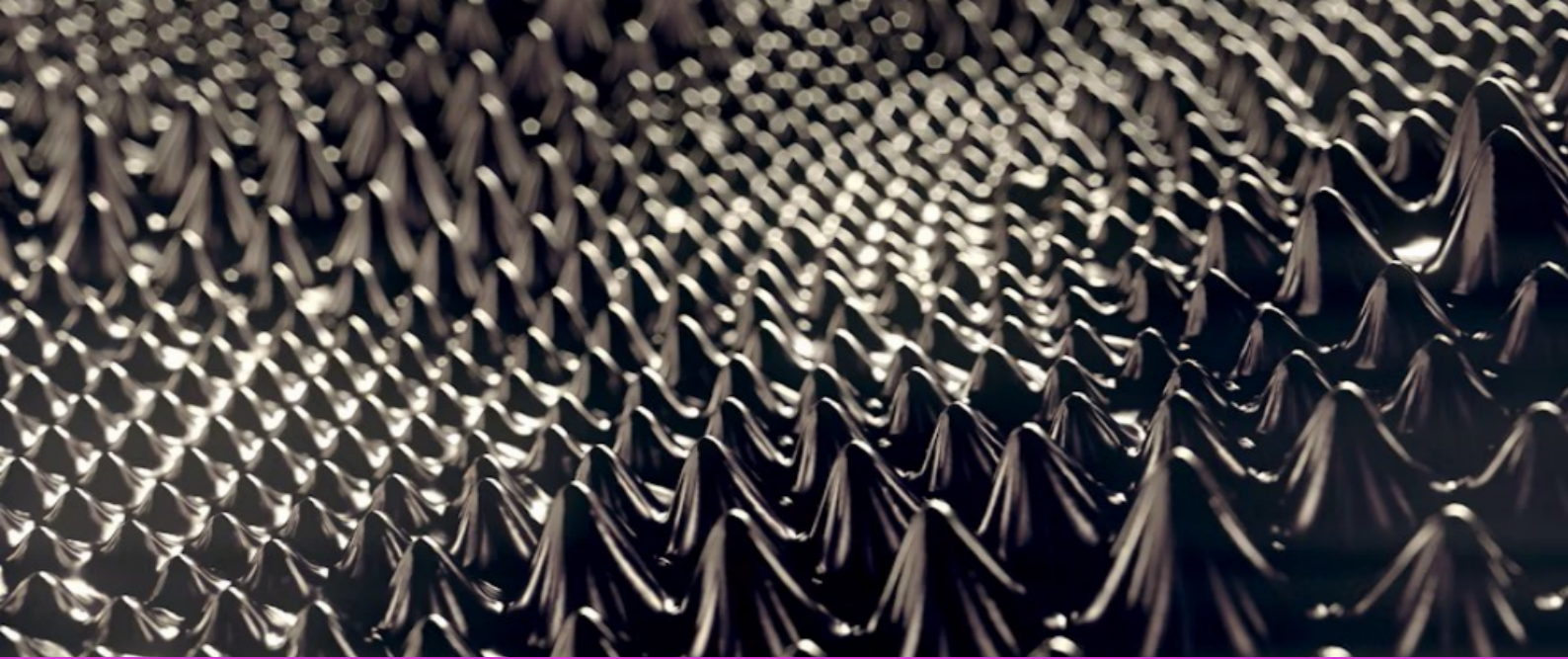


FERROFLUID KIT

Educational Science Kit & Desk Toy

- Nano ferrofluid that makes magnetic fields visible
- Ages 14+ · Use under adult supervision





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01 Product Overview

1.1 Kit Contents



Ferrofluid



Clear liquid



Etching agent



Coating agent

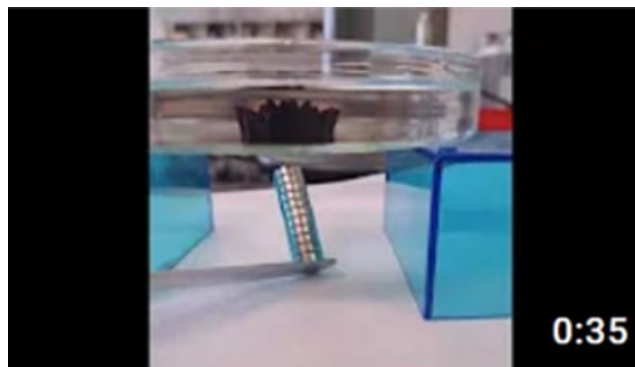
1.2 Product Life & Durability

Durability test — 500 rpm, 1,000 hours



<https://www.youtube.com/watch?v=gVzHjHmVaB0>

Post-test condition check — after 1,000 hours



<https://www.youtube.com/watch?v=cG20uBQTysY>

Click an image or link to open the video on YouTube.

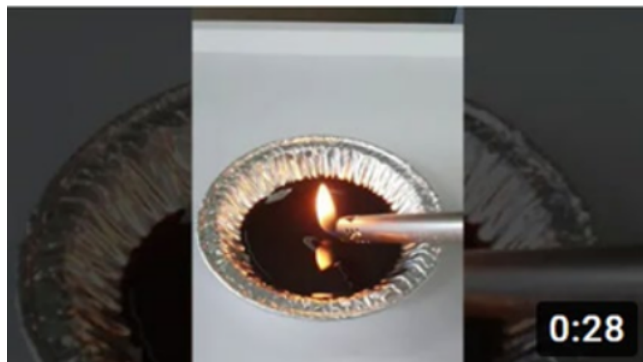
02 Component Details

2.1 Ferrofluid



- 01 RoHS certified
- 02 Solvent-free (contains no volatile solvents)
- 03 Non-volatile — no evaporation at room temperature

Ignition test — Ferrofluid



<https://www.youtube.com/shorts/lrpr-TnHls>

Structural durability test — Ferrofluid



<https://www.youtube.com/watch?v=MBN8HAp711M>

Click an image or link to open the video on YouTube.

2.2 Clear liquid



- 01 Solvent-free (contains no volatile solvents)
- 02 Non-volatile — no evaporation at room temperature
- 03 Flow rate adjustable via density tuning (made to order)

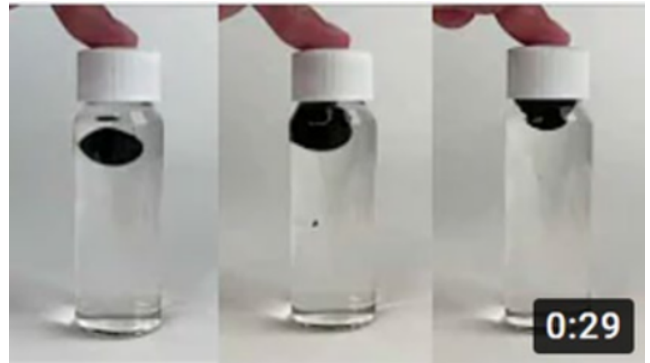
02 Component Details

Ignition test — Clear liquid



<https://www.youtube.com/watch?v=CDQTNwn3g6U>

Descent-speed control — Ferrofluid



<https://www.youtube.com/watch?v=blaRwrJUmyc>

Click an image or link to open the video on YouTube.

2.3 Etching agent

- Etching agent chemically etches rough glass surfaces.
- It reduces the surface roughness inside a glass container.
- Any etching agent left in the container may react with the ferrofluid.
- After etching, rinse with water and dry the container completely.



01 Prevents ferrofluid from clinging to the glass wall

02 Leftover etching agent can be reused

After etching, rinse with water and wipe dry with a clean cloth or tissue. The container must be completely dry before use.

02 Component Details

2.4 Coating agent

- A coating agent developed to prevent ferrofluid from staining the glass container.
- Effectively suppresses staining.



01 Prevents ferrofluid from staining the glass wall

02 Leftover coating agent can be reused

Detailed instructions for the etching agent and coating agent are provided with purchase.

03 Kit Assembly Guide

3.1 Choosing a Container

We receive many enquiries about containers. Only glass containers are suitable. In our testing, containers made of other materials (e.g. plastic) all showed staining.

The smoother the glass surface, the lower the chance of staining. However, specialty glass with a smoother finish costs more. Please weigh both factors when making your choice.

3.2 Assembly in 5 Steps

01

Prepare the container

02

Pour the etching agent into the container

03

After 20 minutes, remove the etching agent and rinse with water



Wipe completely dry with a cloth or tissue

04

Apply the coating agent, then pour off the excess



Dry completely (air-dry for at least 3 hours; the longer, the better)

05

Pour in the clear liquid, then slowly add the ferrofluid



Assembling a kit without specialised equipment

<https://www.youtube.com/watch?v=6Lu2ctEEGHA&t=33s>



Custom specifications available on request

We continue to develop and release new products. Please get in touch.

04 Company Information



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