

# Laminar Sciences Corporation

## Product Brief

Laminar Science's Multi-Colored Rheoscopic Fluid is a transparent rheoscopic fluid that produces rainbow colors in response to flow conditions in the fluid. It is great for visually studying fluid flow or creating mesmerizing kinetic art pieces.



### How it Works

Anything that creates pressure differentials or shear conditions in the fluid causes the fluid to become birefringent in those areas. Mechanical movement of objects in the fluid, mechanical movement of the fluid itself (e.g a wave tank), and air bubbles all look great.

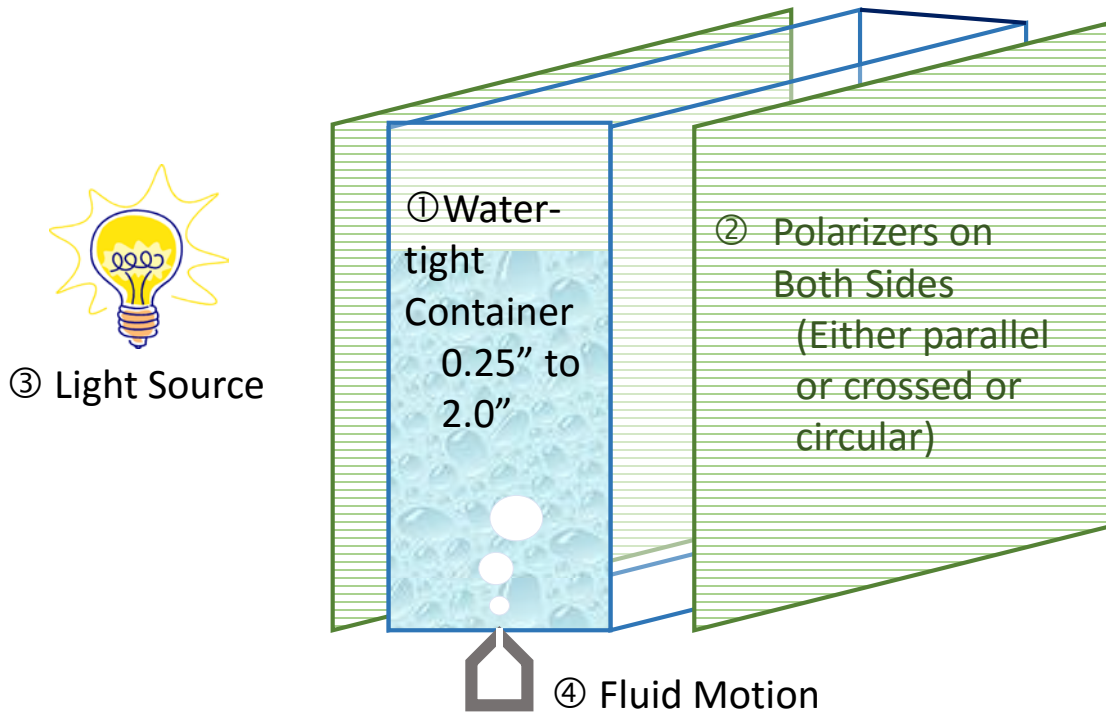
### The Science of the Fluid

Laminar Science's Multi-colored Rheoscopic Fluid is a suspension of small silicate particles in water. When put under pressure or shear stress, the particles align themselves into larger crystalline structures that become birefringent. As the fluid pressures and stresses dissipate, Brownian motion of the water molecules breaks up the temporary crystalline structures and the fluid returns to its clear state.

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## Engineering Required !!

As magical as Laminar Science's Multi-colored Rheoscopic Fluid is, to make the colors appear requires some engineering. There are basically 4 requirements, as shown in the diagram below



## Available in 2 Formulations

- "Professional" version: Optimized for higher fluid clarity and deeper tanks
- "Educational/Hobbyist" version: optimized for cost