

WHAT IS OOBLEK?

IS IT A SOLID? IS IT A LIQUID? OR IS IT
SOMETHING IN BETWEEN?

NORMAL MATERIALS

When substances change state – from solid to liquid to gas – their behaviour changes. This is normally because of a change in temperature; e.g. water goes from ice to liquid to steam.

Their thickness (viscosity) decreases as temperature rises.

TEMPERATURE



But for some substances, viscosity also changes with pressure. If you apply a force to these fluids, they can become solid, and vice versa. These are

OOBLEK MATERIALS

Otherwise known as **Non-Newtonian Fluids**

Examples include



Custard



Hand cream



Ketchup



Lava



Ooblek
(cornstarch & water)



Shampoo



Toothpaste

WHY IS IT IMPORTANT?

Liquids flow but solids don't!

At a manufacturing plant it is important to understand the way fluids flow in different conditions to make your plant efficient and avoid blockages in pipes, leaks or even explosions!

By understanding these fluids manufacturers can create products more quickly and easier for us to use.

This is why scientists and engineers study subjects like rheology and fluid dynamics.