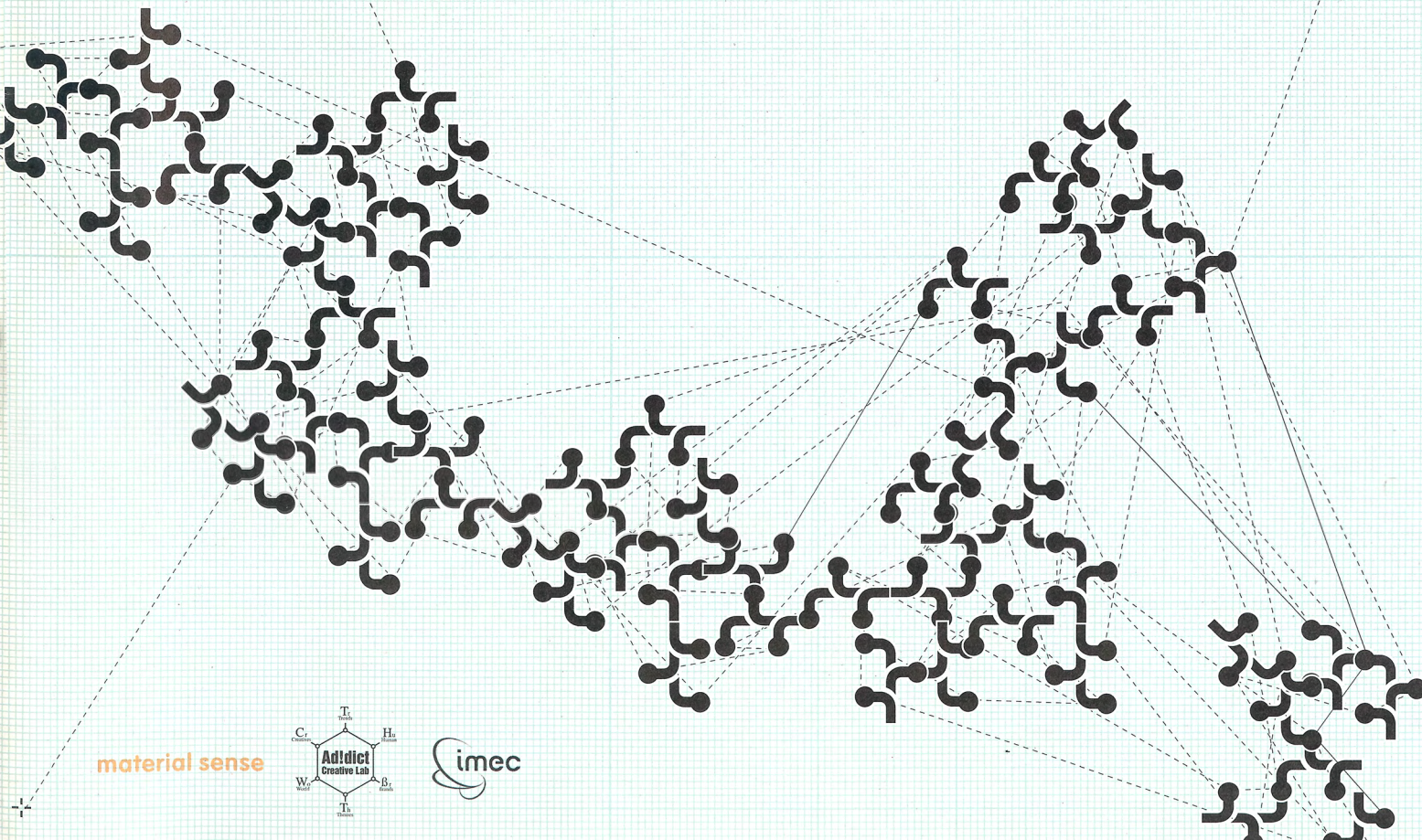
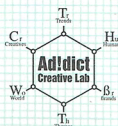


nano *materials*



material sense





1

d3o technology

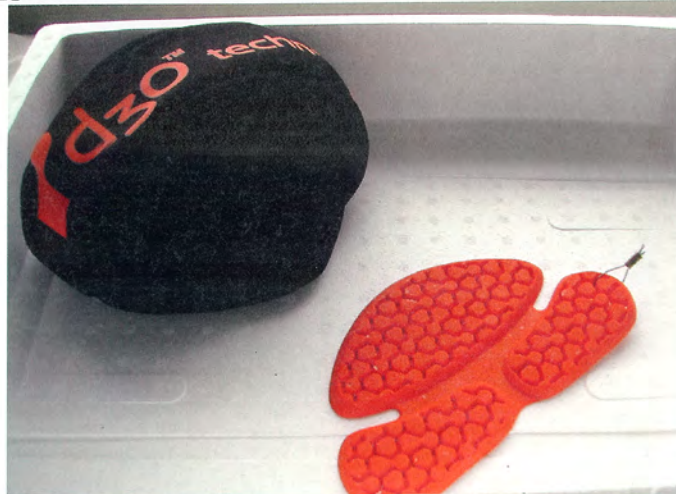
d3o is a specially engineered material made with intelligent molecules. They flow with body movement, but on shock they lock together to absorb impact energy. d3o is used as flexible protection incorporated into apparel and accessories.

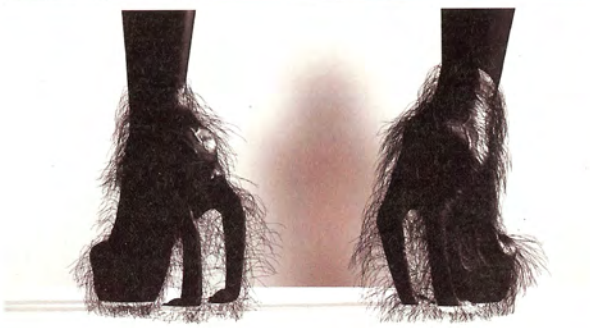
The molecules flow past each other at low rates of movement with the natural movement of the body, but when subjected to an impact that requires the molecules to move very quickly, they instantaneously lock together by linking to form a protective barrier.

1 d3o sheet material (mesh 4mm & 6mm, contour 10mm) and d3o base material.

2 Prototype soft hat containing d3o technology and components

2





a Hunt for High-tech

In a world...where nature and science emerged, where technology breathes and where living without is impossible. This futuristic world is the inspiration for a collection of imitation fur, a collection for the fashion industry.

The 'future fur' shows that it is more interesting to imitate an imaginary world... and is based on biomimetics of animal skins.

Nanogel



4 4 2

Nanogel is a unique form of highly porous silica. The characteristics of this material – such as high surface area and large pore volume – set it apart from common silica products. It is known as the lightest weight and best insulating solid in the world. It was originally developed for the aerospace industry and currently also used in coats and as insulation for buildings.

4
4
2
Nanogel



Synthetic Diamond



Diamond scalpel for cosmetic surgery, with a super sharp blade made of synthetic diamond mounted in a titanium handle. The diamond blade gives the surgeon the highest quality cut; wounds heal better and faster. Diamond knives can be used for hundreds of procedures without losing their sharpness.

7 Synthetic Diamond Cosmetic Scalpel by Element Six BV

Synthetic Diamond Ophthalmic Knife 82

The **diamond knife** for ophthalmic surgery is mainly used for cataract surgery, with a super sharp blade made out of synthetic diamond mounted in a titanium handle. The diamond blade gives the surgeon the highest precision and the cleanest cut. The handle has a special connection for the washing machine for easy and safe cleaning (luer lock).

