

HYGROTEQ

The latest premium foam HygroTEQ manages the twin challenges of temperature and humidity in one revolutionary foam grade.

For patients in hospital or at home, spending weeks, even months in bed, can result in uncomfortable pressure ulcers.

Pressure ulcers are also known as 'bed sores' or 'lying down ulcers'. People are at risk of developing pressure ulcers when they can't easily change position in bed.

Constant pressure or friction causes damage to the skin and underlying tissue. Pressure ulcers are a common problem for people with reduced mobility, especially aged care patients who are confined to a chair or bed.

Pressure ulcers are dangerous if left untreated. They can lead to serious conditions such as:

- *sepsis (bacteria entering the bloodstream)*
- *cellulitis (inflammation of body tissue causing swelling and redness)*
- *bone and joint infections and more.*

How we implemented this in our range?

The flexi Bariatric 300 chair has been specifically designed to cater to the heaviest of payloads featuring increased weight capacities, a unique twin gas operation mechanism, heavy duty supports and wider seat and back widths.

flexi Bariatric offers the full flexi 'Pre-Adjusted' Back Support System, on a strengthened chair and the exclusive Hygroflex foam that provides excellent support and weight distribution.

The flexi Bariatric can provide confidence when performing everyday tasks, as well as maintaining more independence, in and around the house or office environment.

RMIT Study

RMIT University recently conducted a study to determine the effectiveness of HygroTEQ foam as a pressure redistribution material compared to traditional memory foams.

The researchers were interested in the properties of a pressure redistribution surface that helped mitigate the development of pressure ulcers.

Several mechanical tests were developed to evaluate the response of each foam type. These tests measured the pressure gradient, duration of pressure, immersion, envelopment, and shear and friction of the foam.

What was tested?

- 1. Pressure Redistribution Tests**
 - Sharp Indentation Tests*
 - Bulbous Indentation*
 - Envelope Tests*
- 2. Heat Dissipation Test**
 - Thermal Diffusivity Test*
- 3. Shear and Friction Tests**
 - Shear Test*
 - Cyclic Test*

[Read The Full Study Here](#)



HygroTEQ



RESEARCH SHOWS

HygroTEQ can redistribute pressure more effectively than traditional memory foams.

HygroTEQ can diffuse body heat more rapidly than traditional vicofoams.

Moving on HygroTEQ requires less force and generates less friction.