

# The next generation memory foam has arrived!



**FusionGel**

Enhanced Memory Foam

**DUNLOP FOAMS**

# Cutting edge technology that will give your products the competitive edge!

Dunlop Foam's FusionGel™ is gel infused premium memory foam with a unique combination of superior comfort, support and breathability, cooling and durability. Other so called "gel" memory foams use dye and polyol thickeners in place of real gel. These additives have no impact on the performance of the foam and can sometimes actually reduce its durability over time.

The unique formulation of Dunlop Foam's FusionGel™ is engineered to deliver exceptional comfort from the moment you start using FusionGel™. It is designed to maintain pressure relieving comfort through a wider range of ambient temperatures than ordinary memory or gel infused foams, which usually require a lengthy "break-in" period.

Unlike other "gel infused" foams in the marketplace our FusionGel™ foam is infused with a higher amount of actual gel particles, and made using the exclusive formulation of our premium open-cell memory foam technology, which is much denser than many other products in the marketplace. This results in a richer, more premium feel finished product with noticeably

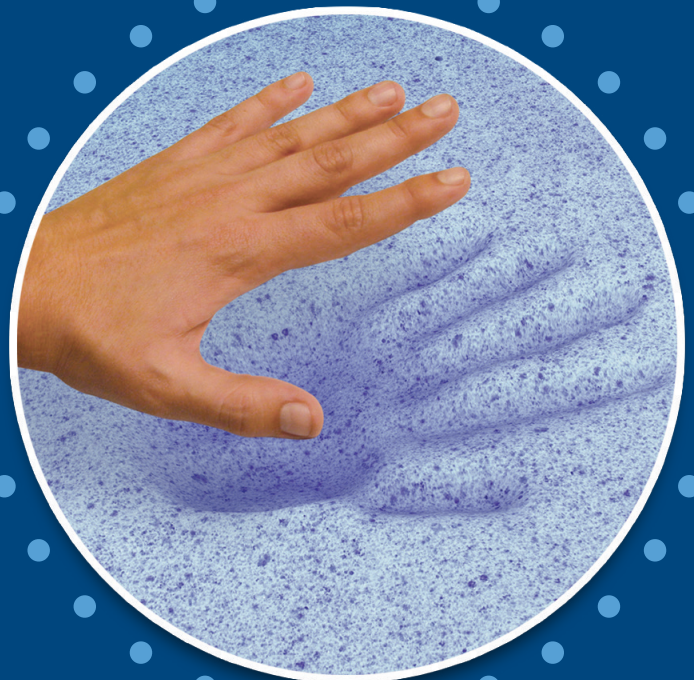
higher support and durability.

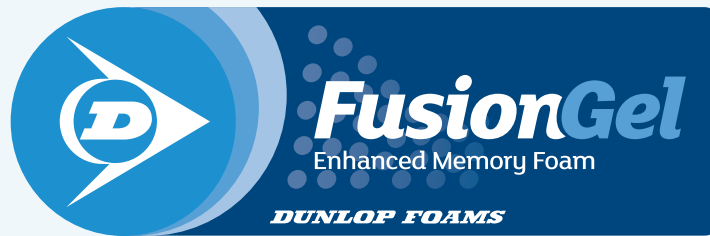
While ordinary memory foam can sink in too much and not support the entire body, our FusionGel™ works to uniquely support the body where it needs it most. Millions of actual gel beads gather in high pressure areas that need extra support to sustain the load without sinking further. This may assist muscles to relax and rejuvenate so you can wake up with fewer aches and pains.

FusionGel™ is designed to deliver lower average body pressure than other advanced comfort materials. This means that you can get a deeper, more restful sleep with less tossing and turning. This may also help reduce the likelihood of developing pressure sores when used in hospital mattresses and wheelchair cushions.

While ordinary memory foam can trap heat against the body, FusionGel™ foam combines an open cell structure and our unique gel formula to dramatically increase airflow and whisk heat away from the body. In fact it can be up to 10 times more breathable than ordinary memory foam and combined with the heat regulating properties of gel, creates a cooler, more pleasant sleeping

**If you're looking for a material to give your products a competitive edge, then take a look at the cutting edge technology of FusionGel™**





## How is FusionGel™ different to conventional memory foams?

Advanced gel particles are infused evenly through our superior memory foam during manufacture. The gel particles move closer together under pressure providing greater support and preventing the foam from bottoming out under heavy loads. Heat dissipation properties of the gel provide superior regulation of body temperatures.



### Active Support

**Advanced gel particles come together under pressure providing greater support where you need it most.**

A bed comfort layer needs to provide support for an unevenly distributed load. Point loading of the comfort layer, in the shoulder and hip regions in particular, can overload the support and bottom out the comfort layer.

FusionGel™ provides a smooth transition from pressure relief in the comfort zone (top 60% of compression) to greater support in the deep compression range from 60% to 90% compressed.

When FusionGel™ is compressed, the gel particles begin to come together and interact resulting in a transition from pressure relieving memory foam properties to pressure response more like pure gel. Essentially, greater compression results in greater support which prevents bottoming out in high load areas.



### Balanced Temperature

**Enhanced airflow and heat dissipation for your ideal sleep temperature.**

The specially designed memory foam used in FusionGel™ is highly conductive with an open cell structure. When this is infused with gel, which is a material known for a high heat capacity and conductivity, the result is an advanced material with the ability to rapidly channel heat to help regulate your body temperature while sleeping.



### Instant Comfort

**Dynamic response to body movement provides the ultimate in comfort and pressure relief.**

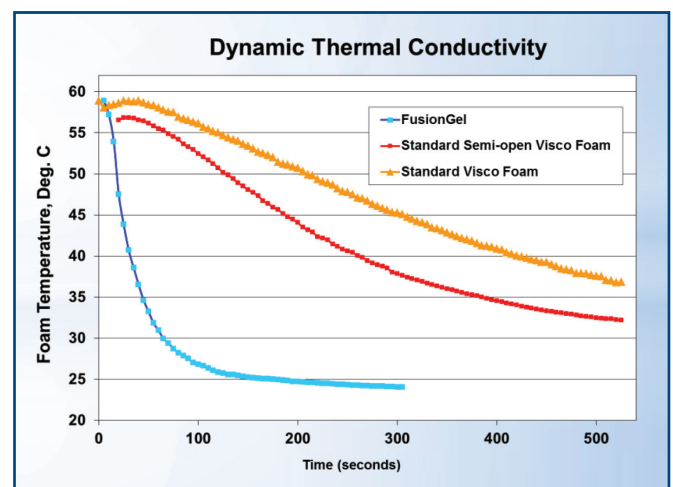
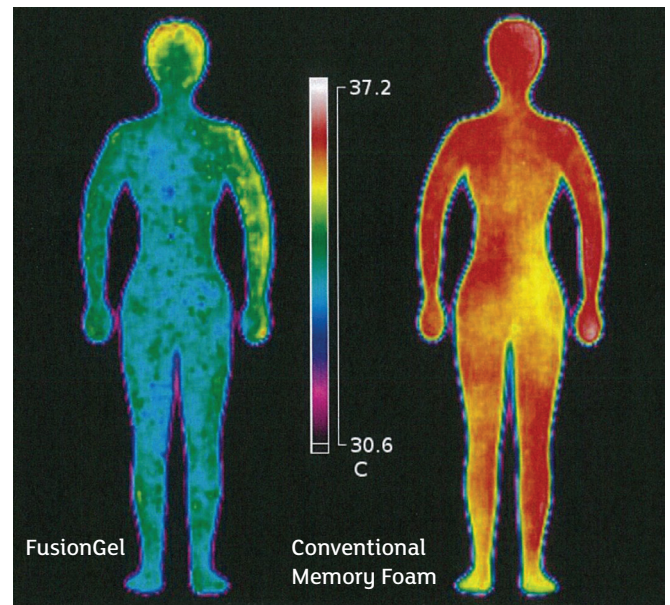
Infusing memory foam with gel results in a blending of typical glass transition range (Tg) of memory foam that results in a much quicker response to temperature change. Combining this unique property with the body heat regulating ability of FusionGel™ results in superior pressure relief and comfort.



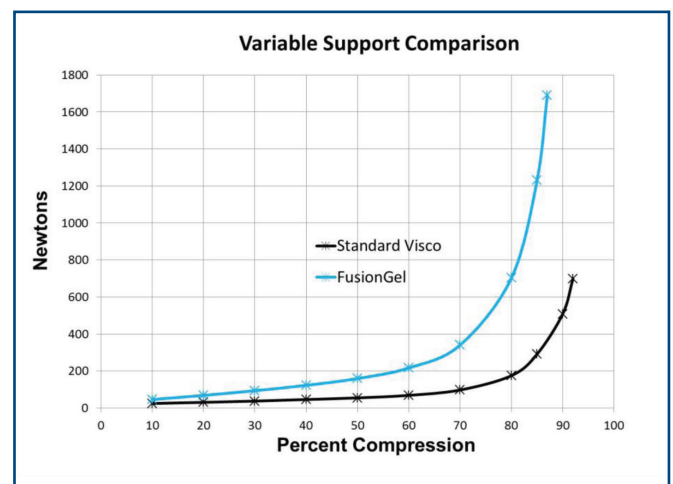


# TECHNICAL DATA

- FusionGel™ is an excellent conductor of heat
- The high heat capacity of FusionGel™ provides a large reservoir to remove excess body heat
- FusionGel™ cools to room temperature significantly faster than ordinary foam
- FusionGel™ provides targeted pressure relief
- FusionGel™ allows the intergrated transfer from a soft initial feel moving through to deep compressive support



Consumers are now familiar with gel and can associate many therapeutic and comfort products with gel materials



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