

cushioning products by supracor

featuring Stimulite® honeycomb



Stimulite...The Intelligent Support Surface

WHAT IS STIMULITE?

A flexible form of aerospace honeycomb that is fusion bonded without adhesives, retaining all the benefits of the base material.

WHAT IS STIMULITE MADE OF?

Thermoplastic urethane, a flexible and resilient material that is non-toxic and safe for the body and the environment. The same material can be found in wound dressings and heart valves.

HOW DOES STIMULITE WORK?

Stimulite's flexible cellular matrix consists of alternating thick-and thin-walled cells that flex when compressed to relieve pressure. When sitting on a Stimulite cushion, the compressed cells radiate outwards to surround and support the anatomy. The "footprint" of the flexible cells *stimulates* capillary action, bringing more blood to tissue for healthier skin.

WHAT MAKES STIMULITE'S VENTILATION SYSTEM SO UNIQUE?

Most cushions and support surfaces address the microclimate through the cover material. But research has proven this to be ineffective in controlling heat and humidity. Each cell of Stimulite honeycomb is perforated to allow air to flow both vertically and horizontally, keeping the body temperature from rising and preventing humidity. To complete the ventilation system, our covers are made of natural, breathable fabrics that work with the honeycomb to wick away moisture and minimize sweat.

ARE STIMULITE CUSHIONS ADJUSTABLE?

Stimulite cushions self-adjust to the user by contouring to each individual's anatomy while equalizing pressure across their surface.

For sizes, product care* and to learn more about Total Pressure Management, visit www.supracor.com/medical.htm.

* Both the honeycomb and cover may be washed and dried separately in front-loading machines. Do not use chlorine bleach.

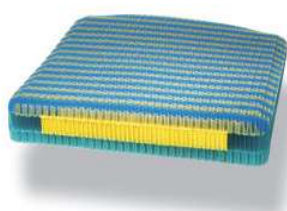
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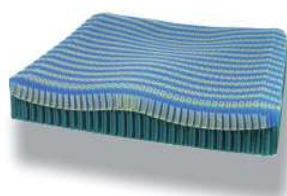
STIMULITE CONTOURED XS CUSHION

For people with sensitive skin, the 3-1/2-inch thick, ventilated Stimulite Contoured XS cushion, which weighs only 3-1/4 pounds, features a soft top layer of specially engineered Stimulite honeycomb fused to two bottom layers. The honeycomb cells contour to body shape enabling bony protuberances to freely sink into the cushion while supporting the surrounding anatomy. A rear dish provides optimal pelvic positioning for improved posture and stability. Adductors and an abductor comfortably contain the legs, without impairing transferring. Machine washable.



STIMULITE CLASSIC XS CUSHION

Created for people with sensitive skin, the 2-3/4-inch thick Stimulite Classic XS cushion features a soft top layer of specially engineered Stimulite honeycomb fused to two bottom layers. The compliant honeycomb cells contour to body shape enabling bony protuberances to freely sink into the cushion while supporting the surrounding anatomy. Weighing only 3 pounds, the ventilated Stimulite Classic XS cushion is the choice for individuals with sensitive skin. Machine washable.



STIMULITE SLIMLINE XS CUSHION

Designed with a mild contour and low profile for active people with sensitive skin, the ventilated Stimulite Slimline XS cushion features a soft top layer of specially engineered honeycomb fused to a bottom layer. The compliant honeycomb cells contour to body shape enabling bony protuberances to freely sink into the cushion while supporting the surrounding anatomy. Light and comfortable, the Stimulite Slimline XS cushion is 2-3/4-inches thick and weighs only 3 pounds. Machine washable.



STIMULITE SPORT CUSHION

A low profile, planar design for athletes' sports chairs and active users, the ventilated, lightweight Stimulite Sport cushion is 2-inches thick and weighs slightly more than 2 pounds. A soft layer of Stimulite honeycomb is fused to a robust bottom layer with built-in bolsters for maximum shock absorption, support and stability. A really "cool" cushion for competition and everyday use. Machine washable.



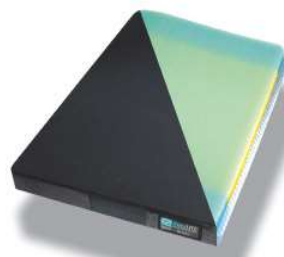
STIMULITE SILVER CUSHION

Designed for people who are at lower risk for pressure sores, the ventilated, two-layer, Stimulite Silver cushion can be used in a wheelchair, on a recliner or stadium seat and provides exceptional comfort, stability and support. At 1-1/2-inches thick and weighing only 1 pound, you can take this cushion wherever you go. Ideal for traveling, it can be tossed into a car's trunk or an airplane's overhead compartment. Machine washable.



STIMULITE CONTOURED PEDIATRIC CUSHION

Designed for positioning and comfort, the Stimulite Contoured Pediatric cushion consists of a soft top layer fused to a firmer bottom layer of flexible Stimulite honeycomb. Adductors, abductors and an ischial dish comfortably position the child, while the soft honeycomb cells hold him or her securely in place. By providing optimum pressure relief, stability, shear force reduction and ventilation, this very comfortable cushion helps protect children's skin against pressure sores. At 2-1/2-inches thick and weighing 1-2 pounds, this cushion is suitable for all activities. Machine washable.



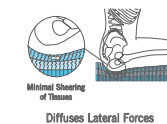
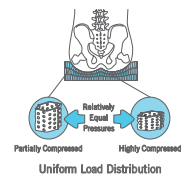
STIMULITE BARIATRIC CUSHION

Consisting of two soft layers of flexible, Stimulite honeycomb fused to the back of a robust bottom layer, the high-performance Stimulite Bariatric cushion provides maximum pressure relief, stability and ventilation. Weighing only 7-8 pounds, the 3-inch thick Bariatric cushion accommodates weights up to 650 pounds. An optional incontinence pad fits between the cushion's top and bottom layer. Washable.



STIMULITE ON TOP CUSHION COVER

Just place Stimulite On Top. Like magic, your cushion will now breathe to control heat and moisture. This removable cover features a 3/4-inch thick layer of Stimulite honeycomb that fits over any cushion. Machine washable.



Total Pressure Management

MACERATION RESISTANCE

Skin maceration is softening of the skin as a result of continual exposure to heat and bodily fluids or moisture. Severely softened or macerated skin is less tolerant of pressure and can lead to breakdown. Stimulite honeycomb is perforated, enabling air to circulate and moisture to evaporate which helps maintain skin integrity. The “footprint” of the honeycomb cells and their flexing action stimulates blood flow to enhance circulation.

PRESSURE RELIEF PLUS POSITIONING

Stimulite honeycomb relieves pressure by distributing it away from hot spots. As a result, bony protuberances “feel” the same pressure as the surrounding anatomy. The honeycomb cells conform to body shape, and distribute weight uniformly. Additionally, Stimulite honeycomb stabilizes any position due to the axial buttressing of the honeycomb cell walls perpendicular to the anatomy.

SHEAR FORCE REDUCTION

The horizontal stiffness of a material determines both its shear resistance and stability. Too much stiffness increases shear forces, while too little decreases stability. Stimulite honeycomb minimizes shearing without sacrificing stability. The honeycomb cells align themselves axially to the body, flex with movement to reduce shear forces against the skin and then instantaneously resume their original shape.

Discover How Our Cells

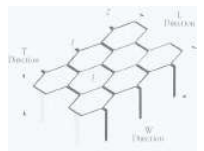
Work For Your Cells®

Sleek and modern, Supracor’s revolutionary Stimulite honeycomb is fast replacing conventional cushioning materials — foams and gels — in a wide range of seating applications, from office furniture to aerospace.

A soft, flexible form of aerospace honeycomb that has “memory,” Stimulite is lightweight and distributes weight uniformly across its surface. Its cellular matrix consists of alternating thick- and thin-walled cells that flex when compressed to relieve pressure. When sitting on a Stimulite cushion, the compressed cells radiate outwards to surround and support the anatomy, *self-adjusting to each individual* while providing excellent stability. A unique ventilation system made up of tiny perforations in the cell walls allows air to circulate both horizontally and vertically, creating an *ideal microclimate for long-term sitting comfort*.

Stimulite has a proven track record in the medical field among wheelchair users and bedridden patients where performance is critical to prevent life-threatening pressure sores. Since 1994 Stimulite cushions and hospital mattresses have provided Total Pressure Management® — pressure relief, reduced shearing and ventilation to control heat and moisture — the key to pressure sore prevention.

And as its name implies, Stimulite provides an additional benefit important to long-term sitting comfort. The “footprint” of the flexible cells *stimulates capillary action*, keeping oxygenated blood in tissues and combating the numbness that can occur when sitting for long durations.



The Distinguishing Geometry of Aerospace Honeycomb

1. Double walls in “L” direction (example: 0.020” T)
2. Single walls in “W” direction (example: 0.010” T)
3. Multiple cell radii (eight to each cell)

