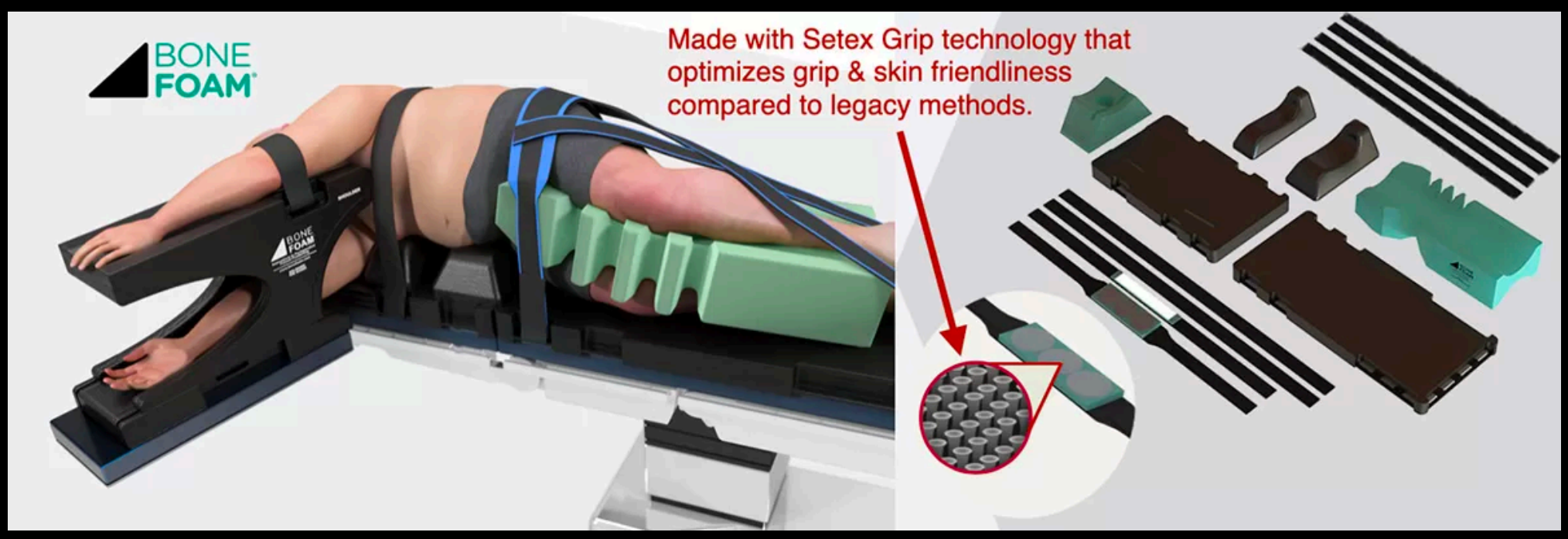
Medical Grip Applications

Setex Technologies offers a unique solution for grip to skin in medical applications. Our multi-patented microstructures have a revolutionary ability to grip to skin in wet and oily environments, providing up to a 250% improvement in the coefficient of friction, while enhancing patient comfort.

Many medical devices that come into contact with skin can cause irritation or other potentially harmful issues if they start slipping. Traditional non-slip solutions are not always ideal for medical applications; tacky surfaces can leave harmful or uncomfortable residue, and rough textured surfaces can cause irritation and excessive dermabrasion. Setex Technologies' unique gripping surfaces are mechanical in nature, so they naturally leave no residue, are skin friendly, and are soft and comfortable.

Lateral Lumbar Positioning Solution with Setex Technologies

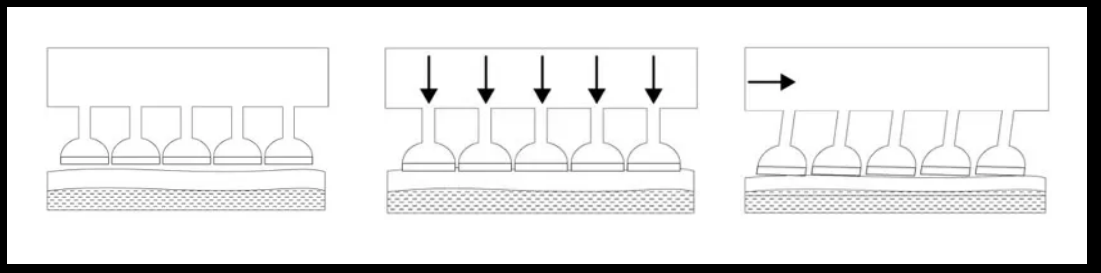


BoneFoam® uses Setex's gripping material applied to straps to replace annoying, sticky, and time-consuming medical tape on their product, a Lateral Lumbar Positioning Solution. Setex's grip allows for consistent and repeatable patient positioning, can reduce operating room costs by cutting down set-up time by eliminating complex tape configurations, and won't irritate skin like tape can.

Setex Technologies

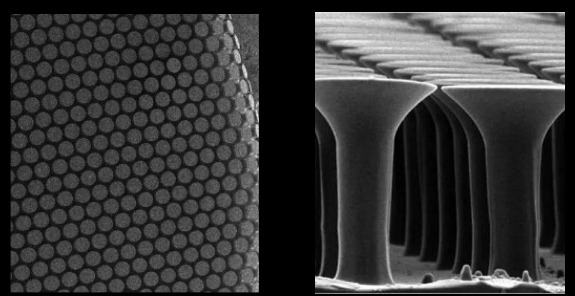
The Technology

Setex's grip is a high friction microfiber surface inspired by the microscopic hairs, or setae, of a gecko's foot. The microfiber tips provide enhanced friction, and the gaps between them function to wick away fluids like sweat or skin oils from the surface, improving the friction even in challenging conditions. The fibers also provide a comfortable feel and can reduce skin irritation.

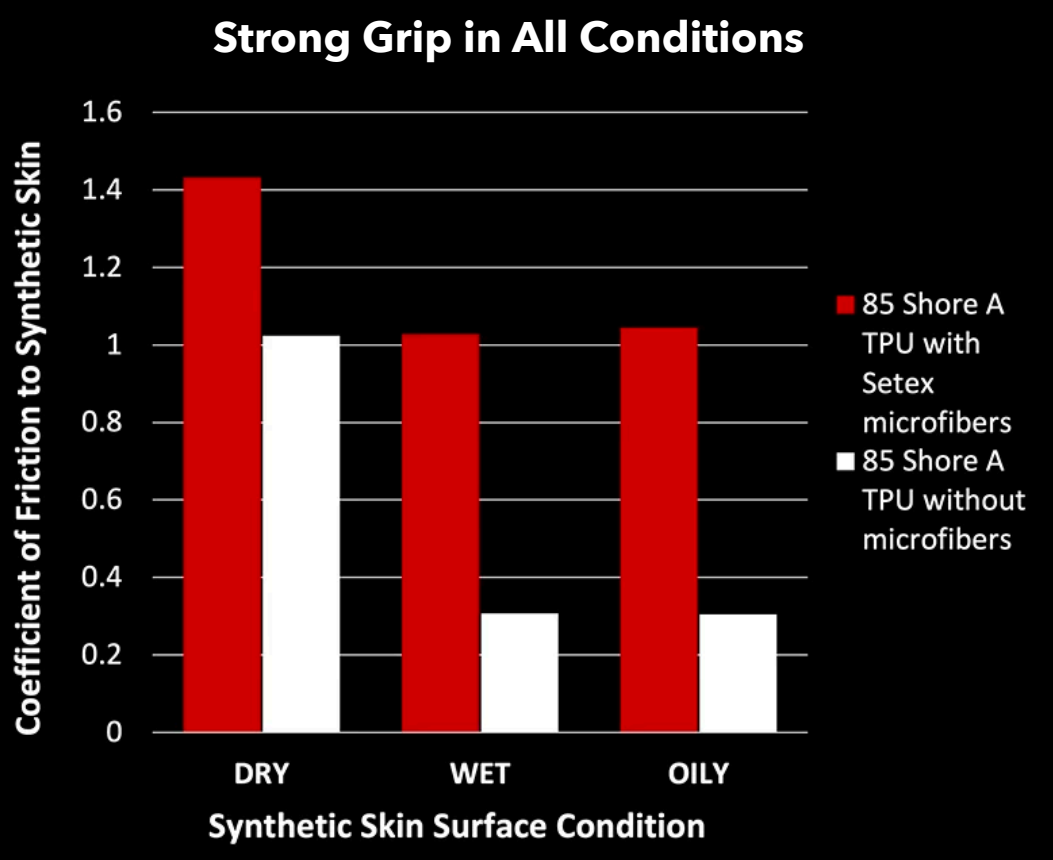


Thousands of mushroom shaped microfibers mimic gecko toe hairs (setae) and provide soft, comfortable contact to skin even under wet and oily conditions.

Setex® micro-fibrillar surface



100 micron tall microstructures under magnification.



Technology Benefits

Comfort: Microstructure surface results in distinctively pleasant texture; less chafing and irritation.

No Sticky Residue: No residue prevents damage to equipment.

Time Savings: Reduce time in operating room set up by eliminating tape.

Easily Configured: Available in sheets or pads, or molded directly into a medical device surface.

Many Polymer Chemistries: Adaptable to various chemistries & hardnesses, including Latex-free Natural Rubber, Silicone Rubber and Thermoplastic Elastomer.

Medical Grip Use Cases

Surgery

Apparel

Prosthetics

Equipment

Orthopedic