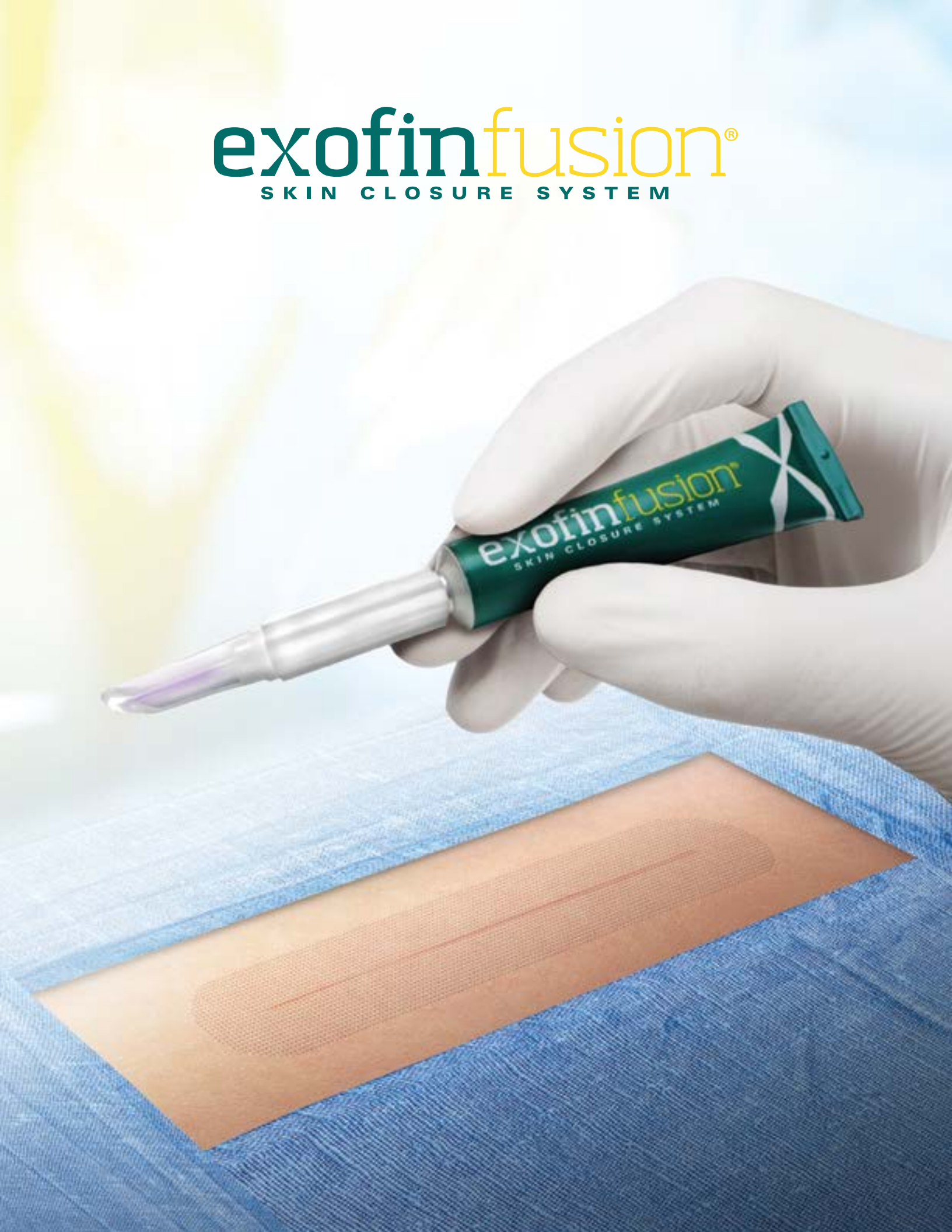
exofinfusion®

SKIN CLOSURE SYSTEM



IT STARTS WITH THE MESH

Initiator free mesh for less patient exposure

exofin fusion® system removes all initiators from the mesh itself to reduce patient exposure. Instead, the initiator is delivered with the polymerizable adhesive. Extracted samples showed a **61% REDUCTION** in the amount of initiator that the patient could be exposed to.



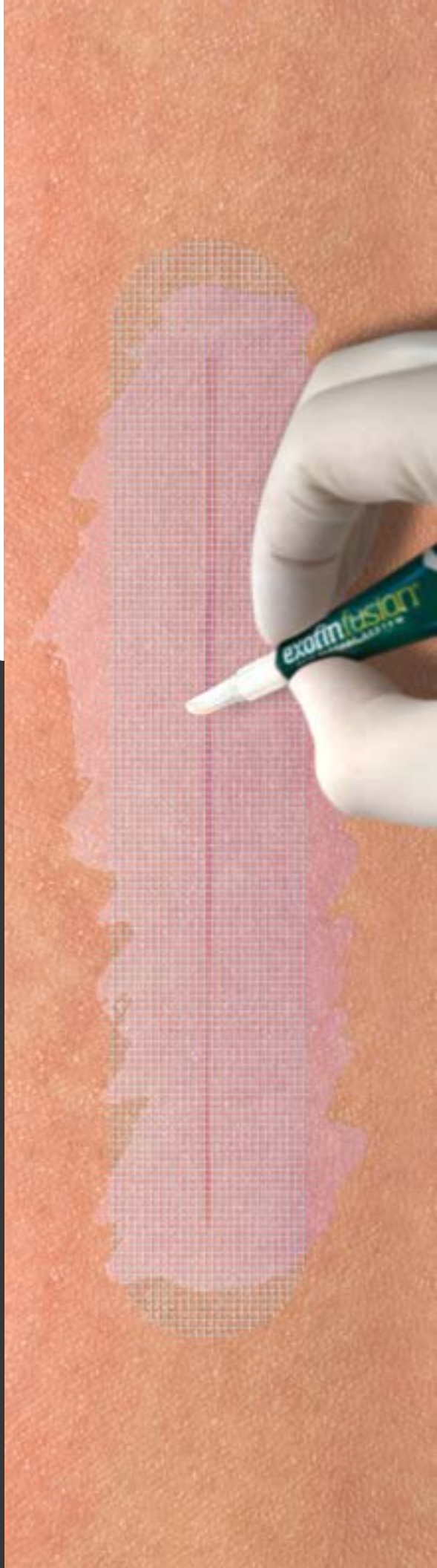
Larger Mesh Opening

The **exofin fusion**® mesh pattern has larger openings allowing more adhesive to flow through onto the patient's skin. This design improvement ensures a stronger bond with the skin, keeping the mesh securely in place for the desired amount of time.

Added Convenience

Putting the initiator in the adhesive applicator ensures consistent, fast polymerisation times. Average "dry" times are less than 45 seconds.

Additionally, we include more adhesive per kit to ensure you have ample material for each size of mesh.



THE SHAPE OF THINGS TO COME

Introducing exofin fusion® Curved Mesh

Other systems contain rectangle shaped mesh which may cause skin damage sooner under cyclic loading due to higher forces and stresses. The curve mesh shape of **exofin fusion® reduces the area for potential damage due to stress by 67%.**

Tissue subjected to the stresses in these areas are susceptible to skin damage.

The curved shape dissipates the stress throughout the entire mesh patch as opposed to a specific stress point such as a corner, or across the top or bottom.



ADDRESSING THE CHALLENGES

Topical skin adhesives and skin closer systems (mesh + adhesive) all have common challenges. There are two primary differences between these devices. 1.) The addition of a polyester mesh in the skin closure system and 2.) The location of the accelerant to speed up adhesive polymerization. Review of historical FDA complaint data reveals the top three complaints to be:

- Blistering of the skin
- Premature mesh release
- Redness and allergic skin reactions

Blisters are reported as co-symptoms for both skin closure systems and topical skin adhesives, mainly alongside contact dermatitis for both devices. This is a larger issue for skin closure systems (mesh + adhesive).

Standalone blistering is reported more consistently as an adverse event with skin closure systems (>20% of reports in 2017 and 2018).

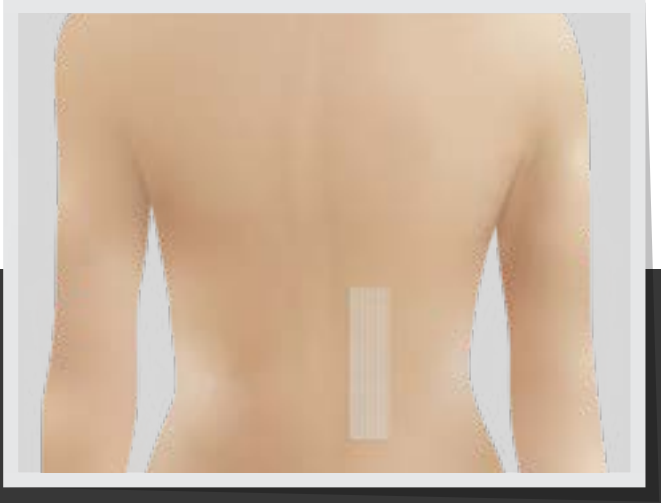
exofin fusion® addresses each of these issues in a specific manner to reduce potential patient risk. The curved mesh reduces strain and blistering. Removing the initiator from our mesh reduced skin reactions. Increasing the size of the mesh openings allows greater adhesive-to-skin contact for better bonding.

REDUCING SKIN STRESS & STRAIN

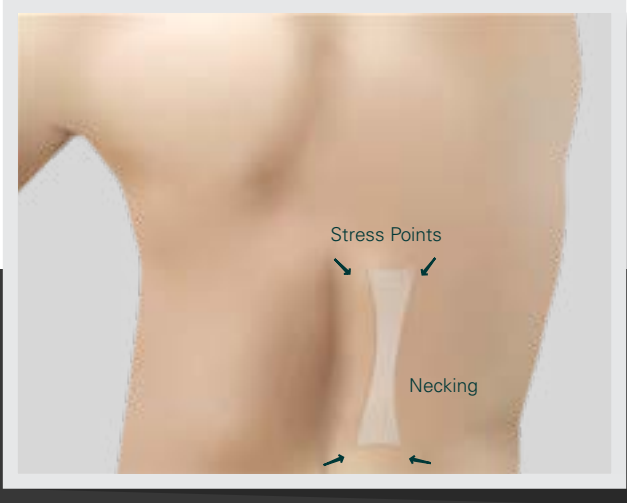
Skin is naturally elastic. Polyester mesh is not. When the two combine, straight lines can cause friction at stress points - typically the four corners. Tissue subjected to the stresses in these areas are susceptible to skin damage.

exofin fusion® mesh features curved ends, designed to reduce stress and strain points by dissipating friction and force across the entirety of the strip.

Mesh Strain: Rectangular Design

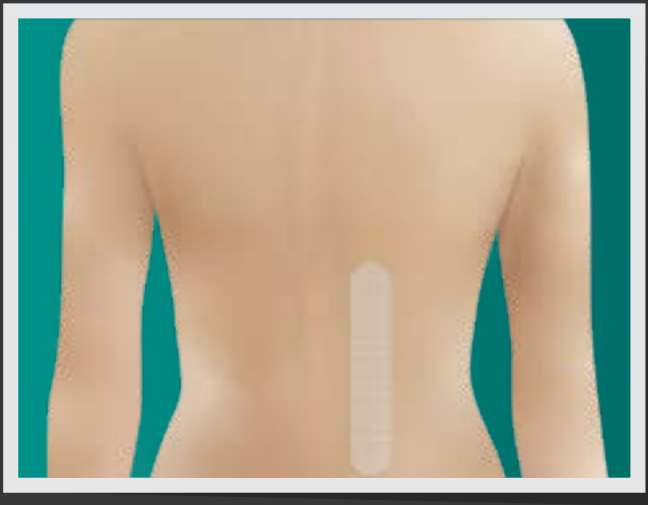


When Applied

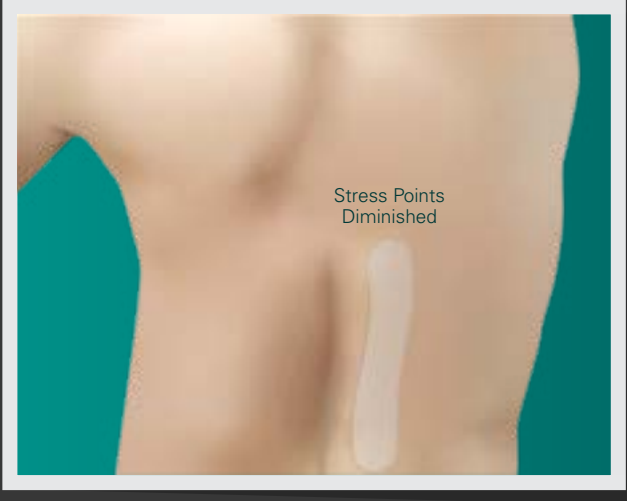


Stretched

Mesh Strain: exofin fusion® Curved Design



When Applied



Stretched

COMMON EXOFIN FUSION® APPLICATIONS

Orthopedics for Total Joint/Hips and Knees

Plastic Surgery

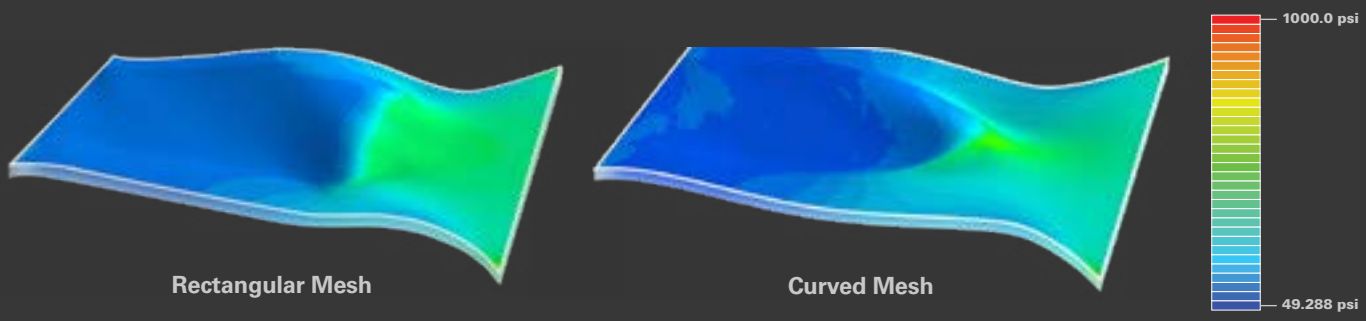
Cardiovascular Closure of the Chest/Sternum

Ortho/Neuro for Spine

Obstetrics & Gynecology

Substantial Reduction in Skin Stress*

Strain = 33.3% (Model Length 152.44mm)



Rectangular Mesh

Curved Mesh

	RECTANGULAR MESH	CURVED MESH	REDUCTION (%)
High Stress Area (mm^2)	1258	417	**66.8%**
Max Stress (psi)	933	730	**21.8%**
Total Force (lbf)	1913	1095	**42.8%**

*Content provided by D&D Innovative Research (DDIR) LLC, 7/29/2019.

THREE CONVENIENT SIZES

Solutions in 22cm, 30cm, and 60cm

Available in three convenient sizes to ensure proper fit for your procedure and patient. Longer mesh lengths like 30cm and 60cm are ideal for joint replacement procedures. The longer mesh eliminates the need to cut or overlap additional strips.

When mesh doesn't fit properly, the patient can experience discomfort or even blistering, especially obese patients. Longer mesh gives enough slack at both the proximal and distal ends to reduce force on the skin when at a 90 degree angle during rehabilitation.



ORDER INFORMATION

Use the guide below to see specific information on the complete Chemence® Medical line of products.

PRODUCT CODE #	PRODUCT DESCRIPTION	CONTENTS	DIMENSIONS	CUBE	WEIGHT
		(Quantity)	(LxWxH)	(CM^3)	(KG)
	Skin Closure System				
EF70422CE	exofin fusion® Skin Closure System 22cm	2 Systems	30.8 x 10.478 x 11.43	3668.72	0.181 kg
EF70430CE	exofin fusion® Skin Closure System 30cm	2 Systems	30.8 x 10.478 x 11.43	3668.72	0.181 kg
EF70460CE	exofin fusion® Skin Closure System 60cm	2 Systems	30.8 x 10.478 x 11.43	3668.72	0.181 kg
	Topical Skin Adhesive				
EX91510	exofin® Micro 0.5mL 10 Tubes	10 Tubes	13.335 x 5.715 x 6.5	485.36	0.0907 kg
EX91011	exofin® Topical Skin Adhesive 1.0mL 10 Tubes	10 Tubes	13.335 x 5.715 x 6.5	485.36	0.0907 kg

Contact your local representative for evaluation samples.

CHEMENCE® MEDICAL

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