

# Arm guard cost savings

Knit sleeve technologies, such as Kevlar®, have been around for years in steel plants. However, they offer little to no puncture protection and get hot and sweaty. They also end up falling down like a tube sock, exposing workers arms to hazards on the jobsite.

## Most lacerations begin with a puncture

The fact is, a lot of industrial injuries occur with an initial puncture and lead to a cut or laceration injury. With knit (Kevlar®) arm guards, hazards can actually poke through the open knit and cut the skin without cutting the arm guard. How does this happen?

Depending on the density of the knit, the gauge (the measure of the number of knitting needles per inch), and the thickness of the fibers, a guard may “window” and allow the knit to spread apart. This “windowing” can allow a sharp point or blade to penetrate the arm guard and cut the forearm.

Plating with small guard plates, such as in HexArmor® products that use SuperFabric® brand materials, reduces this effect as the plates shield the knit structure from the hazards. The plates also lock in the knit and don't allow the knit to window as in traditional arm guards.

## 60% Cost savings by switching to HexArmor®

In addition to the greater degree of cut and puncture protection, implementing HexArmor® arm protection can create a cost savings of up to 60%. HexArmor® conducted a study based on a metal fabrication plant with 200 employees. This plant was averaging 6 lacerations per year with an associated cost of \$11,000. By implementing HexArmor®, they eliminated these injuries for an annual savings of \$66,000. Additionally, the extended wear life of the HexArmor® arm guards reduced their monthly average cost per employee from \$9.85 to \$4.09.

	HexArmor® AG10009S	Kevlar® Arm Sleeve
Cut resistance	4,425 Grams	600 Grams
Puncture resistance	100x more than Kevlar®	none
Usage per employee	1 pair/6-12mo	1 pair/week
<b>Total yearly cost</b>	<b>\$24,792</b>	<b>\$48,000*</b>

\*Study based on metal fabrication plant with 200 employees. Switching from Kevlar to HexArmor® arm protection saved them 60% on product cost due to longevity of the HexArmor® arm protection.

HexArmor's mission is to help companies save money and protect workers from serious hazards that everyday PPE can't handle.

## HexArmor® arm guards



- HexArmor® arm guards with SuperFabric®\*\* brand material outperform existing knit alternatives, providing up to 100x more puncture resistance than Kevlar® sleeves.
- HexArmor® tests all products both in the lab and in the workplace, assuring maximum product performance in real-world applications.
- SuperFabric® brand material is a HexArmor® exclusively licensed solution for the Industrial PPE market that provides industry-leading protection against lacerations, punctures, and slashes like no other material in the industry today.

\*\*SuperFabric® is a registered Trademark of HDM, Inc.

*HexArmor® is an industry-leading manufacturer of high performance personal protective equipment (PPE). Products are cut and puncture resistant, NOT CUT AND PUNCTURE PROOF. Do not use with moving or serrated blades or tools. User shall be exclusively responsible to assess the suitability of the product as specified for any individual application or use. Product features, design, protection zones subject to change.*

**HexArmor**

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