



OIL COMPANIES TARGET SMASH INJURIES AS LEADING CAUSE OF HAND INJURIES IN UPSTREAM PRODUCTION

In 2008, ExxonMobil, along with other industry leaders in the oil and gas industry, initiated an in-depth study of hand-injuries. These initial studies identified smash injuries as the leading cause of on-the-job hand injuries on drilling sites. The safety organization took action on the results of the study and established safety glove guidelines and standards to address impact injuries on drill sites.

FACTS

- As part of an industry study it was determined that smash/contusion injuries made up more than half of all hand injuries on drill sites
- Cuts and punctures were the second highest cause of hand injuries on drill sites
- HexArmor has been working with ExxonMobil and other industry leaders since 2008 to design PPE solutions to solve these known problems, and has had success implementing solutions worldwide to reduce injury

INDUSTRY LEADERS INITIATE DRILL SITE HAND INJURY STUDY

For global petro-chemical service companies like ExxonMobil, contractor and employee hand injuries represented a disproportionate source of costly worker downtime and medical claims. In 2008, industry leading oil and gas companies conducted a large-scale study of upstream exploration operations to categorize the different types of hand injuries.



The study found that more than half of the hand injuries were a result of a smash or contusion. These injuries most frequently occur while moving drill pipe, pushing tools, pulling chain, rigging up and down in frac applications, and securing pipe valves. As a result, several PPE manufacturers developed “advanced technology gloves” with varying levels of impact protection.

The second highest cause of injuries reported was categorized as cut and puncture (laceration). As service companies like Halliburton and Schlumberger looked at the cause of hand injuries, they saw a very high percentage (approximately half) of injuries that were categorized as a laceration, puncture, or abrasion related.

These results initiated a search for a higher level of hand protection capable of reducing or eliminating smash issues as well as cuts and punctures. Through extensive research, Halliburton and Conoco Phillips chose to partner with HexArmor to manufacture gloves for a field test. After hearing about the success of the Halliburton and Conoco Phillips field tests, ExxonMobil approved HexArmor gloves for similar tests to address smash, cut, and puncture injuries on their own drill sites.

ENGINEERING THE IDEAL GLOVE SOLUTION

HexArmor’s ability to design and engineer products that address smash injuries as well as cuts and punctures created an opportunity to work directly with the safety teams in these large oil and gas companies. All parties realized that while competitive ‘advanced technology’ gloves provided some protection against impact injuries, they did not offer the level of protection needed to prevent cut and puncture injuries.

PROTECTIVE FEATURES

SMASH PROTECTION

It's hard to predict when a tool is going to slip, or a pipe will shift and smash or pinch your hand. That is why HexArmor engineered its IR-X™ smash guards to deflect impact away from the hand 133% better than competitive impact protection.

CUT RESISTANCE

HexArmor with proprietary **SuperFabric®** provides industry-leading protection and exceeds Level 5 (ISEA and CE) cut resistance ratings. SuperFabric provides resistance against punctures, lacerations, and slashes like no other material in the industry today.

PUNCTURE PROTECTION

HexArmor gloves were laboratory tested to validate industry standards for puncture resistance, and gloves were field tested to provide real world safety results.

HexArmor took feedback from field workers on oil rigs and drill sites and used these insights to develop a full line of high performance hand protection that addressed smash issues plus the cut and puncture problems that had not been solved by previous manufacturers. Using proprietary technologies like IR-X™ smash guards and **SuperFabric®** material, HexArmor was able to help companies like ExxonMobil push their hand protection program to a higher level of safety.

USING ADVANCED TECHNOLOGIES TO ACHIEVE PREMIUM PROTECTION

IR-X™ impact guards were engineered with advanced impact shielding materials that have the ability to dampen blunt force to the hand 133% better than the nearest competitor. The impact guards are created with optimal density and rebound properties that deflect the impact of blunt forces better than any product on the market. SuperFabric® technology provides puncture protection from wires, metal burrs, and sharp edges as well as ISEA and CE level 5 cut-resistance. The combination of advanced technologies in HexArmor products was a key reason that ExxonMobil, Halliburton, and Conoco Phillips chose to partner with HexArmor to improve its hand safety program.



IR-X™ Smash Guards

on drill sites. These gloves provide the highest levels of cut protection and impact protection on the market in a comfortable, high-dexterity design.



GGT5 fleet (4020x, 4021x, 4031x)

GGT5® Series 4020x, 4021x, 4031x

GGT5® Gator Grip Series gloves provide the most protection from cuts, punctures, and smash injuries out of all oil and gas gloves. We have engineered the GGT5 Series to handle various lubricants (4021X for oil based muds and 4020X for friction reducers) and have a cold weather version (4031) with a thermal waterproof liner.

HexArmor® is an industry leading manufacturer of high performance personal protective equipment (PPE) made with technologies that push the limits of cut, puncture, needle, and abrasion resistance. Our mission is simple: give you better products with better technology designed with end user needs and collaboration. HexArmor works with industries from gas and oil field construction, to mining, food processing and waste recycling to design the best working and most protective glove available today.



Chrome Series™ (4026)

PRODUCT SOLUTIONS

Chrome Series™ Mechanics' Gloves

The HexArmor Chrome Series 4026 Mechanics Glove was made to handle tough hazards



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