

AUSTRALIAN DISTRIBUTOR

# Diplomat

*...the cutting edge in safety*

OIL & GAS

 HexArmor



THE INDUSTRY LEADER  
IN CUT, PUNCTURE AND  
IMPACT PROTECTION





# WE DON'T JUST MAKE WORK GLOVES

## WE ENGINEER PROTECTIVE ENVIRONMENTS FOR YOUR HANDS TO WORK IN

### Designed to Maximize Protection and Reduce Cut, Puncture, and Impact Injuries

HexArmor® designers have worked hand-in-hand for more than two years with safety experts from Halliburton®, Noble Drilling®, ExxonMobil®, and other leaders in the oil and gas industry to engineer a glove with the capability to deliver the perfect balance of exceptional protection, dexterity and grip.

While competitive "advanced technology" work gloves provided some protection against impact injuries, research highlighted that the majority of injuries in many sectors of the oil and gas industry were cut and puncture, and that existing glove designs offered little protection against these often painful and debilitating injuries.

HexArmor® applied current industry data to develop and design specific technical solutions for the industry's major safety challenges in hand protection. While creating solutions to protect against punctures, cuts and impact injuries, maintaining the essential grip and feel required to work quickly and efficiently was of high importance in the development and engineering of our lineup of oil and gas gloves.

**"If a glove can't protect you, or allow you to perform the way you need to work, it's just not getting the job done right."**

**- Joey D., Alaska**

**Roughneck**



Many competitive gloves provide some protection against impact injuries, but almost no protection against cuts and punctures. In fact, most cut protection offered by competing oil and gas safety gloves is not much better than 2-ply cotton gloves. Research indicated that while impact injuries accounted for many of the hand injuries in the field, cut and puncture injuries accounted for over 50% of injuries in some companies. The conclusion was that the existing hand protection was not up to the job of protecting oil and gas workers. Why settle for a less than 50% solution when it comes to safety?

Whether you are wrenching on a valve head, handling lumber, pulling cable, hauling tools, or moving piping, your hands can be exposed to a wide variety of cut, puncture and abrasion hazards. While many PPE products in the market try to address other prominent hand injuries, such as impacts and contusions, these products fall short in the area of cut and puncture protection.

# CUT RESISTANCE

## HEXARMOR OIL & GAS SAFETY GLOVES ARE ENGINEERED TO PROVIDE MAXIMUM PROTECTION ALONG WITH MAXIMUM DEXTERITY AND GRIP

### Protection in the Tough and Hazardous World of Oil and Gas Production

HexArmor® gloves are constructed with superior and proven materials and technology. The foundation of HexArmor® oil and gas gloves is our proprietary SuperFabric®. The innovative configuration of SuperFabric® provides resistance to lacerations, punctures, and slashes like no other material in the industry today.

### CUT RESISTANCE COMPARISON

While common cut-resistant products, with blends of yarns such as Kevlar®, Dyneema®, or Spectra®, give some minimal protection from straight-edged cut hazards, they don't offer sufficient protection from variable hazards such as metal burrs, wires, or slivers commonly found in oil and gas production environments. HexArmor® gloves exceed the industry's highest testing standards – ISEA and CE Level 5 – giving you the protection you need most, where you need it. No other competitive glove comes close.



The perfect technical and protective fabric for the job at hand: HexArmor® with SuperFabric® maximizes resistance against cuts, slashes and punctures, while providing a superior foundation for maintaining essential dexterity and grip.



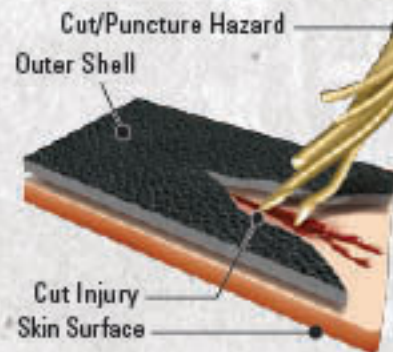
# PUNCTURE PROTECTION

## PREVENTING LACERATIONS AND PUNCTURE WOUNDS

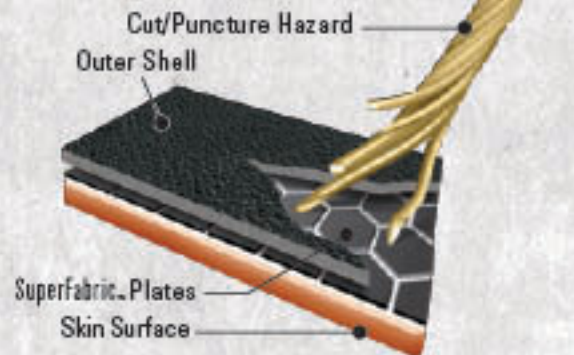
Many lacerations start out as a puncture. A sharp edge, corner, burr, wire "wicker," or other protruding hazards can penetrate the glove and scrape or cut skin. With synthetic leather or cotton gloves, the hazard will poke through the surface of the glove and tear laterally to create a laceration. While a glove may say it has 'cut-resistance,' it often lacks the puncture protection to stop lacerations.



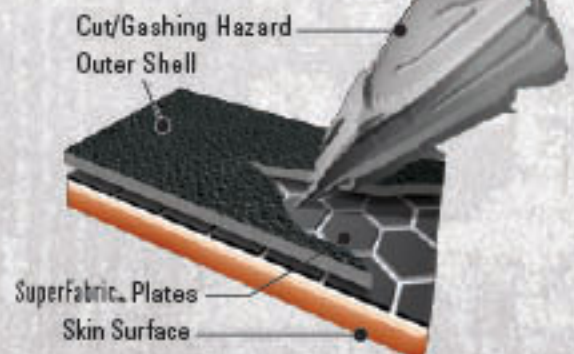
**Standard Synthetic Leather Gloves**



**HexArmor Synthetic Leather Gloves with SuperFabric® Guard Plates**



**HexArmor Synthetic Leather Gloves with SuperFabric® Guard Plates**



Proven protection against punctures – HexArmor® oil and gas safety gloves with SuperFabric® brand materials are tested in both the lab and the field to validate the highest degree of puncture-resistance and performance.

# IMPACT PROTECTION

## THE NEXT GENERATION OF IMPACT PROTECTION: IR-X® IMPACT EXOSKELETON™

The most advanced HexArmor® impact resistance comes with all the dexterity, all the comfort, and more protection than offered by any other impact-protective glove on the market. Our proprietary IR-X® technology shields our gloves with a full back-of-hand exoskeleton, so every

joint and knuckle is protected from debilitating blows.

In addition to being 42% taller than competitive impact guards, IR-X® smash guards are purpose-built to deflect the force of sudden impacts away from the impact point, rather than transferring force directly to the hand.

This unique characteristic is what sets IR-X® safety levels higher than the competition, and its flexibility is what makes the IR-X® Impact Exoskeleton™ more comfortable and more dexterous than any other impact-resistant technology available.



HexArmor IR-X® Impact Guards cover the entire back of the hand, including the knuckles and fingers where the majority of impacts occur.

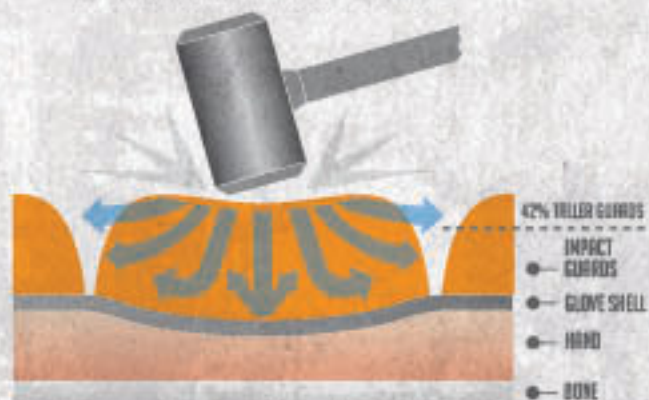
### HexArmor IR-X® Impact Guards

HexArmor's new impact shielding materials protect against serious and painful impact injuries.

#### STANDARD COMPETITIVE IMPACT PROTECTION



#### HEXARMOR® IR-X® IMPACT GUARDS

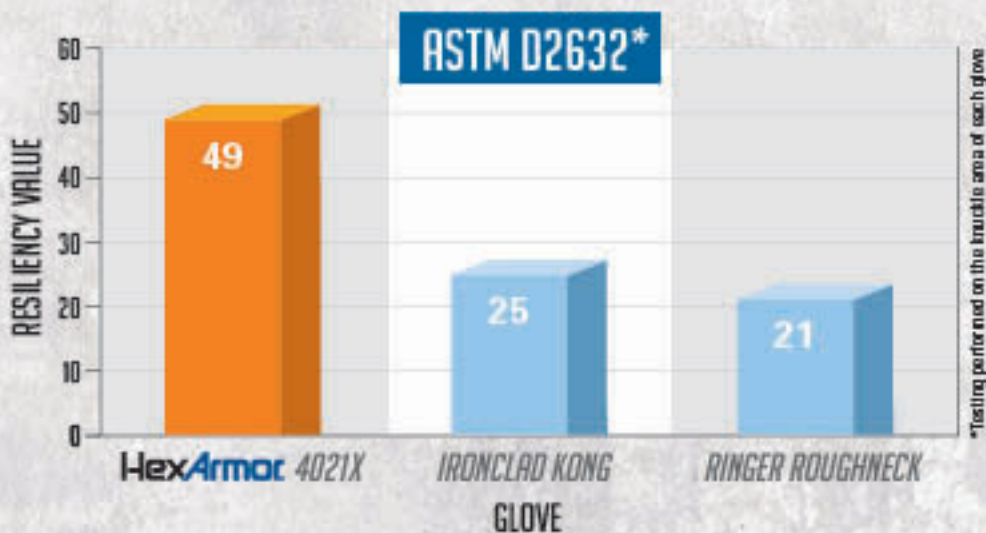


HexArmor IR-X® Impact Guards are 42% taller than competitive impact guards, creating an even greater barrier between your hand and impact injuries.

## ASTM D2632-01 Resilience by Vertical Rebound in Testing

Resiliency of a material can be described as its ability to absorb and release energy elastically, rather than simply transferring energy directly through the material. The lower the tested resiliency value, the more energy is transferred through the material and into the hand during an impact blow.

The test results show that IR-X® products possess a significantly higher resiliency value than the nearest competitor,\* at 25% resiliency. The lowest competitor offered less than half the resiliency value of the IR-X® products.



### About the Test

\*The ASTM D2632 "covers the determination of impact resilience of solid rubber from measurement of the vertical rebound of a dropped mass." Testing was modified so that a complete material composition was tested on each sample (i.e. TPR + foam + lining). The results are given in a resilience value which is "determined as a ratio of rebound height to drop height of a metal plunger of prescribed mass and shape which is allowed to fall on a rubber specimen." The ASTM method measures the amount of energy that is transferred through impact.



GGT5® 4021X  
WITH IR-X®



RIG LIZARD® 2021  
WITH IR-X®



GGT5® 4020X  
WITH IR-X®



GGT5® 4031  
WITH IR-X®



RIG LIZARD® 2022  
WITH IR-X®



RIG LIZARD® 2023  
WITH IR-X®





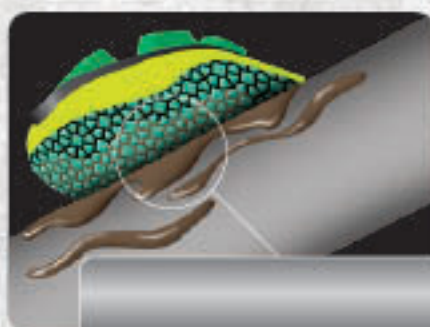
# SUPERIOR GRIP

## THE GRIP YOU NEED TO WORK EFFICIENTLY, EFFECTIVELY AND SAFELY



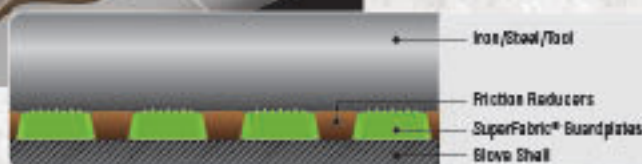
In the oil and gas industry, maintaining grip is a frequent challenge because of the constant presence of lubricating fluids, friction reducers, grease, oil-based muds and honey oils. When tools and pipes are covered with fluids, it can cause surfaces to become slick. This can lead to hand fatigue, strains and sprains from the increased effort required to maintain grip. Eventually, poor grip can lead to lower productivity and increased potential for injury and accidents.

Because different applications have different grip challenges, HexArmor® developed a complete line of gloves to meet the technical challenges for maintaining grip in oil and gas applications.



### GATOR GRIP® 4020X

SuperFabric® Guardplates bike through and channel away lubricant, creating a "snowtire" effect. This gives the user the ability to grip oily or lubricated parts and tools.



### MUD GRIP® 4021X

Surface wicks away lubricant, leaving particles that create friction and improve grip on metal tools.



### ARCTIC GATOR® 4031

TP-X® palm surface does not absorb fluids, allowing grip to be maintained in the presence of lubricating materials.





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ARCTIC

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# RIG LIZARD®

## THE COMBINATION OF COMFORT AND SAFETY

With HexArmor® on your side, you can attain what was once just an idea; focused versatility. The Rig Lizard® started with the belief that PPE should protect your hands from specific workplace hazards while not limiting the facility and dexterity of your most valuable tool. Our team of Solution Specialists hit the drawing board with safety advisors from across the industry, and the result is an outstanding lineup of purpose-built, high-level PPE.

The Rig Lizard® line of products is the result of collaboration between safety leaders in the field and our HexArmor® Solution Specialists in the lab. Extensive testing and trialing was conducted to uncover the most detrimental injuries, the most common on-site hazards, and the dangerous applications your PPE must face every day. The Rig Lizard® line employs two proprietary HexArmor® technologies:

- IR-X® Impact-Resistant materials form an exoskeleton over the back of your hand, providing the highest level of impact protection on the market while maintaining optimal flexibility for high dexterity.
- TP-X® Synthetic Palm technology uses top-level grip properties in addition to ANSI/ISEA Level 3 cut protection.

No single technology can address every worksite hazard. The combination of multiple technologies



and features found in the Rig Lizard® make it the ideal PPE for oil, gas, and mining operations, and the dangers that are present. That's the HexArmor® focus. The applications of the Rig Lizard® extend past your basic mechanic's glove, and with the cold- and warm-weather options, your hands can stay as safe as possible in all hazardous environments; that's the versatility of HexArmor® PPE.

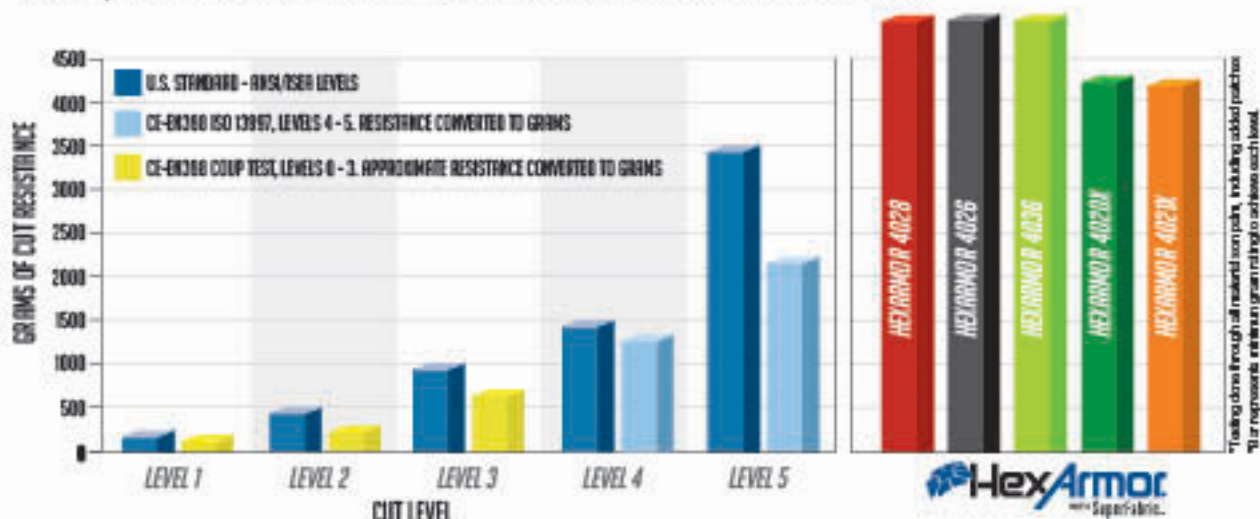
HexArmor  
RIG  
2021-X/XX

HexArmor

## TESTED LIKE NO OTHER GLOVE IN THE INDUSTRY TODAY

To ensure the safety and quality of HexArmor® oil and gas gloves, we test them to the absolute highest standards possible, standards that no other gloves available are held to. By validating cut, puncture and tear resistance to the industry's highest testing levels – ISEA/ASTM Level 5 ratings – we give you the confidence and assurance that your gloves will live up to the superior protection the HexArmor® name is known for.

### Compare The Best with The Rest: CE vs. ANSI Cut Chart



Cut-resistance is a function of a glove's material composition and thickness. Glove manufacturers typically use the ASTM F-1790 standard to obtain cut-resistance ratings ranging from Levels 0-5. This test involves the interpretation of data obtained from putting varying pressure (weights) on a standardized razor-type blade and recording the distance the blade travels (at a constant speed) before cutting through.

Many gloves on the market will rate around a Level 1-2 on the ASTM F-1790 test (less than 1000 grams), which won't protect workers from sharp edges, blades, or wood splinters. The limitations of the synthetic leather, and in some cases Kevlar®, that makes up the palm of most gloves is that they offer little cut or puncture resistance. They may receive a 'cut-rating' on the industry standard, but will fail in the field when exposed to normal work.

Additionally, some manufacturers will claim Cut Level 5 protection on a product, but will not specify the test used to obtain this data. The CE Coup test varies dramatically from the ASTM F-1790, and the result is a difference in true cut protection. A glove that meets the CE standards for ISO Cut Level 5 may not do so in the EN388 Coup test. Be sure to research the tests used to validate manufacturers' claims.

"It's great to finally have gloves that feel custom engineered for this job.

They give me the feel I need to perform, but man, the protection! Those steel burrs that curl out and grab the palm or a side-seam, and open them up, it just doesn't happen with these gloves. The steel just won't cut through it. Amazing stuff."

- Adam D., Texas Frac Crew

Worker

# HEXARMOR® AT WORK

## STAINLESS STEEL SHIM LACERATIONS PREVENTED

Maintenance workers in refineries regularly use stainless steel slotted shims to level and maintain pumps, motors, and machines. While steel shims provide optimal efficiency in maintaining equipment, they also create a dangerous hazard for hands at work. Since pump and machine maintenance is an ongoing process, workers are constantly handling shims, which increases the potential for injury.

### Maintenance Worker has Multiple Injuries Working with Shims

While a slotted shim is a common, helpful tool for maintenance workers in oil refineries and on oil rigs, the shim's handy tab and corners can become sharp hazards that can cause serious injury. The often paper thin stainless steel shims can be razor sharp, and are easily capable of slicing through ordinary leather maintenance gloves, Kevlar, or cotton work



Metal Shim

gloves.

HexArmor® had interviewed a refinery maintenance worker who received several recordable lacerations to his thumb and index finger, as well as smash injuries to his knuckles while working with steel shims. One recent injury required stitches, and due to the location of the wound, the worker was off the job for two weeks. After these costly incidents, the safety team began looking for a better hand protection solution.

### HexArmor® Provides Needed Protection from Razor Sharp Shim Edges

Before returning to work after the injury, HexArmor® provided the same worker with a pair of Chrome

Series® 4026 mechanics' gloves. While performing routine maintenance using a metal shim, the worker received an almost identical type of cut from the shim. This time, however, his hand was not cut and he did not have to leave work that day.

While the sharp edge of the shim slashed the exterior synthetic leather covering the finger and palm of the glove, it had no effect on the SuperFabric® underneath. HexArmor® products with SuperFabric® exceed ISEA and CE Level 5 cut protection, which played a huge role in saving this worker's finger.



HexArmor® prevents injury with SuperFabric®

This worker continued to use the same HexArmor® gloves for weeks after the incident, claiming that: "They were just as good as ever." In order to create this case study, we had to bargain with the worker to give up his HexArmor® gloves for a new pair – a small price for progress in designing the best PPE in the business.

### Chrome Series® Cut 5 Impact Hi-Vis 4026

The HexArmor® Chrome Series® 4026 was made to handle the sharp edges of steel shims and other laceration hazards. These gloves provide the highest levels of cut protection on the market, exceeding industry ratings of ISEA and CE cut 5. HexArmor® smash guards also reduced the risk of smash and pinch injuries from tools and equipment as part of the days work.



HexArmor Elite™ products are purpose-built for the most hazardous and unpredictable work environments. Every Elite™ product employs our proprietary SuperFabric® brand material, which provides the highest standards of safety available

on the market; Level 5 ISEA/CE cut protection and industrial puncture resistance.



## GGTS® GATOR GRIP™ 4020X

FEATURES:

- TP-X® thumb area and silicone dots for maximum grip in saturated situations
- IR-X™ Impact-resistant exoskeleton

Available in sizes 7/S–12/3XL

EXCEEDS LEVEL 5  
CUT RESISTANCE



Impact Protection  
SuperFabric®  
Protection Zone



## GGTS® MUD GRIP™ 4021X

FEATURES:

- TP-X® palm and thumb reinforcements with abrasion-resistant PVC dots for maximum grip in muddy situations
- IR-X™ Impact-resistant exoskeleton

Available in sizes 7/S–12/3XL

EXCEEDS LEVEL 5  
CUT RESISTANCE



Impact Protection  
SuperFabric®  
Protection Zone



## GGTS® ARCTIC GATOR® 4031

FEATURES:

- Hipora® and C40 Thinsulate™ interior liners for water and cold resistance
- Durable TP-X™ palm reinforcement
- IR-X™ Impact-resistant exoskeleton

Available in sizes 7/S–12/3XL

EXCEEDS LEVEL 5  
CUT RESISTANCE



Impact Protection  
SuperFabric®  
Protection Zone



## CHROME SERIES® WATERPROOF 4036

FEATURES:

- Hipora® liner for wet hazards
- Durable TP-X™ palm
- Back of hand impact protection

Available in sizes 7/S–12/3XL

EXCEEDS LEVEL 5  
CUT RESISTANCE



Impact Protection  
SuperFabric®  
Protection Zone



## CHROME SERIES® 4026

FEATURES:

- Oil-resistant synthetic leather palm with PVC dots
- Back of hand impact protection

Available in sizes 6/XS–12/3XL

EXCEEDS LEVEL 5  
CUT RESISTANCE



Impact Protection  
SuperFabric®  
Protection Zone



## CHROME SERIES® SLIPFIT™ 4028

FEATURES:

- Oil-resistant synthetic leather palm with PVC grip
- Back of hand impact protection
- Slipfit® style cuff

Available in sizes  
7/S–11/XXL

EXCEEDS LEVEL 5  
CUT RESISTANCE



Impact Protection  
SuperFabric®  
Protection Zone



## CHROME SERIES® OASIS™ 4030

FEATURES:

- Advanced HexVent™ technology allows for a breathable heat-release system
- Printed PVC synthetic leather palm
- Back of hand impact protection

Available in sizes  
7/S–12/3XL

EXCEEDS LEVEL 5  
CUT RESISTANCE



Impact Protection  
SuperFabric®  
Protection Zone

Not all applications require the maximum level of protection. HexArmor Red™ products offer Level 3 and Level 4 cut and puncture resistance, as well as an array of other protective features. Red™ products are created with the same HexArmor® quality and workmanship you have come to expect from the safety industry's trusted advisor.



## RIG LIZARD® 2021

FEATURES:

- Durable TP-X® palm and thumb area
- IR-X™ Impact-resistant exoskeleton
- Cuff and major seams double stitched

Available in sizes 6/XS–12/3XL

CE   
4243



## RIG LIZARD ORSIS® 2022

FEATURES:

- Advanced HexVent™ technology allows for a breathable heat-release system
- Durable TP-X® palm and thumb area
- IR-X™ Impact-resistant exoskeleton
- Cuff and major seams double stitched

Available in sizes 7/S–11/XXL

CE   
4243



## RIG LIZARD ARCTIC® 2023

FEATURES:

- H-pora® and C40 Thinsulate™ interior liners for water and cold resistance
- Durable TP-X® palm and thumb area
- IR-X™ Impact-resistant exoskeleton
- Cuff and major seams double stitched

Available in sizes 7/S–12/3XL

CE   
4244





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