IMPACT GLOVE PROTECTION BUYING GUIDE



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WHY IMPACT PROTECTION ON THE BACK OF YOUR HANDS IS NECESSARY





You use your hands every day at work, which means that they are at risk of injury from a variety of hazards.

Here are just some of the many activities industrial workers engage in where impact protection is required:

- Falling overhead objects and falling insecure materials
- General hazards during routine maintenance
- Heavy material handling and heavy loads being moved
- Improper use of tools that are loose and cracked, eventually breaking apart
- Objects that are in motion, whether moving, swinging, flying, or falling
- Repair and demolition work
- Use of mobile equipment
- Working in close quarters where pinch points are common



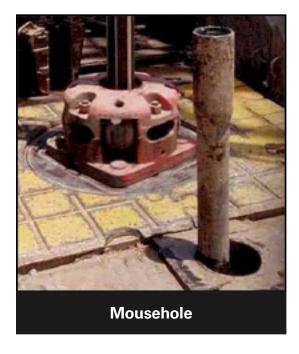
WHY IMPACT PROTECTION ON THE BACK OF YOUR HANDS IS NECESSARY



Common sources of injuries in the oil and gas Industry are:



- Being pinched or struck by the core barrel
- Being struck by the core as it is removed from the barrel
- Being struck by debris or overhead objects
- Construction site and rig site clearing
- Crush and impact from objects, materials, and machines
- Employees using catlines to hoist material



- Getting pinched between tongs or between
 pipe spinner and pipe
- Handling pipe and transferring drill pipe to the drilling platform
- Losing footing while swinging the kelly out over the mousehole
- Material handling



WHY IMPACT PROTECTION ON THE BACK OF YOUR HANDS IS NECESSARY



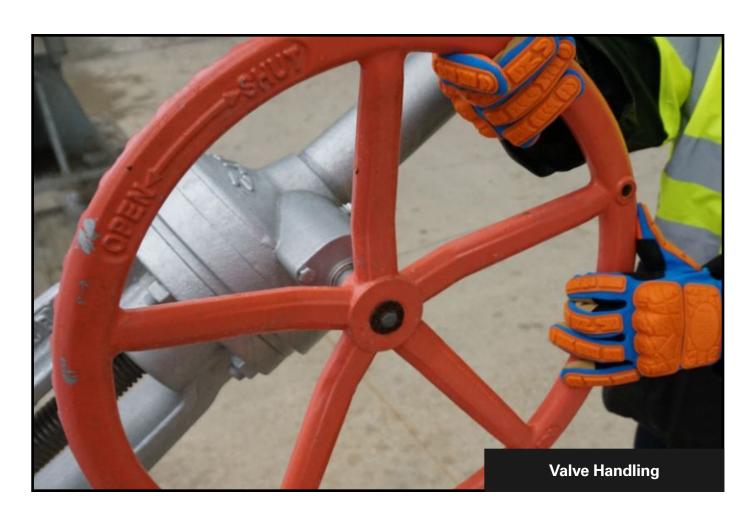


- Pinching fingers when latching the tongs onto the pipe
- Pinching fingers or other body parts between slips or slip handles and rotary table
- Swinging kelly and pipe
- Slippery tool handling; working with damaged tools
- Workers swinging and latching a tong
- Workers lifting, pushing, and pulling heavy items
- Valve handling
- Working with heavy spinning chains, heavy pipes, and overall heavy equipment



IMPORTANCE OF IMPACT PROTECTION IN THE OIL AND GAS INDUSTRY





Impact protection can mitigate the above hazards and risks mentioned.

Our recent blog post about the new **impact protection standard** explains how the industry has continued to evolve with worker safety in mind. The new standard enables employers and workers to know just how much protection is offered by the various gloves on the market.

This guide explains the impact protection rating for our gloves so that you can be sure to get the best pairs for your specific needs.

Lastly, the proper protective garments and eyewear should always be worn. You never know what material might fly off a drill pipe.



IMPORTANCE OF IMPACT PROTECTION IN THE OIL AND GAS INDUSTRY





According to the **National Safety Council**, a workplace injury occurs every 7 seconds: 510 per hour, 12,3000 per day, and 4,500,000 per year. When you examine the injuries that involve the hand, several statistics jump out and confirm why back-of-hand protection is so important:

- Hand injuries at work were second only to back injuries in 2015. According to the Bureau of Labor Statistics, in 2015, <u>workers sustained more than 143,000 injuries</u> to their hands. The Bureau has also found that 76% of hand injuries occur due to cuts and crushes.
- A report in **Occupational Health and Safety magazine** reminds us that in the oil and gas industry, 50% of workplace injuries are to hands, though that number can rise to a whopping 80%!
- 20% of disabling workplace injuries <u>involve the hands</u>—with the primary cause being equipment not performing as expected. From 2009–2013, impact injuries to the wrist, finger, and hand accounted for <u>20% of all body parts injured in the oil and</u> <u>gas industry</u>. A single oilfield hand injury can cost a company more than \$21,000.

With these kind of stats, wearing the right impact gloves is essential for oil and gas workers.



WHO NEEDS IMPACT PROTECTION IN THE OIL AND GAS INDUSTRY?



The oil and gas industry employs over 297,000 workers. We outline all the occupations on our <u>oil</u> <u>and gas resource page</u>. Here are the positions that definitely need to consider impact protection:

- **Derrickman** inspects derricks, repairs mud tanks, and sets crown blocks to posts at the top of derricks
- Installation and Maintenance Worker cleans machines and machine parts
- Rotary Driller Operator and Helper connects sections of drill
 pipe, operate drilling equipment, and raise drill pipes
- Roustabouts tightens pipes, casings, and pump rods
- Service Unit Operators / Tool Pusher moves stuck pipe, casing, tools, or other obstructions from drilling wells, as well as installs pressurecontrol devices, maintains safety inspections, and operates cranes.
- Midstream Mechanic fixes, maintains, and repairs all the mechanical equipment needed to move and install midstream pipes
- Assemblers and Fabricator assembles bolts using many different types of tools and moving heavy parts.
- Wellhead Pumper operates pumps, unloads pipes and pumping equipment, repairs oil gauges, and performs routine maintenance



MCR SAFETY'S HISTORY OF IMPACT PROTECTION





The safety of our customers has always been our top priority. Over the past fortyfive years, we've used our knowledge and experience to continually bring our customers personal protective equipment that they can trust and rely on every day.

Prior to 2008, impact protection was not a key component of glove manufacturing, and most workers had to use all-purpose gloves for hazardous applications.

In May of 2008, MCR Safety and a leading oil and gas production company began **collaborating on the development of a** **petrochemical industry glove**. The goal was to create a glove that protected the backs of workers' hands to help reduce hand injuries and set an industry standard for glove protection. We succeeded with our ForceFlex <u>HV100</u> gloves, forever changing the industry.

By 2010, there was a confirmed 30% reduction in hand injuries for workers wearing the HV100 glove. In addition, field trials showed an average wear time of 14 working days, much longer than a standard cotton glove could offer. Now workers are protected with state-of-the-art impact protection and companies are saving money by replacing fewer gloves less often!



MCR SAFETY'S HISTORY OF IMPACT PROTECTION





Five years later, in 2013, we began offering gloves with tire tread design, which offered the most comprehensive coverage in the industry, and we've only continued to innovate. This year, we introduced our **D3O® Impact Protection** gloves. These are the most innovative impact protection gloves ever introduced, with unmatched performance levels, and, of course, we're still not done.



NEW IMPACT Standard



2019 brings with it exciting and necessary changes to the PPE industry, specifically to impact protection gloves.

The Occupational Health and Safety report details OSHA's finding that **around 30 percent of hand injuries occurred because hand protection was inadequate, damaged, or misapplied**.

When it comes to impact protection, inadequate gloves are a thing of the past. There has not been a set of industry-wide standards that glove manufacturers have followed with regard to the production or testing of gloves, and claims about their effectiveness have been impossible to verify. ISEA 138, the American national standard for performance and classification for impact resistant hand protection, changes that.

Under the new standard, gloves will be rated on an impact-protection scale from level one to three. A classification of 3 means that a glove offers the



most protection, while a classification of 1 means that a glove offers the least. A higher performance level indicates a greater degree of protection, or reduced transmitted force.

Please take the time to read our recent blog post, "Everything You Need to Know About The New Impact Protection Standard," so that you know what changes mean for you and your workers.



IMPACT Protection Page





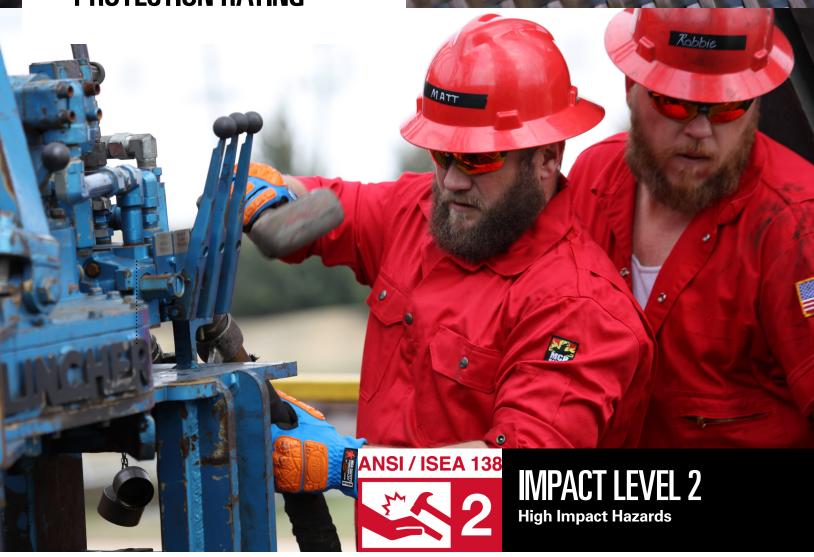
MCR Safety's Impact Protection page is your go-to source for selecting the appropriate impact level protection for your individual needs. We provide a simple-to-use tool that shows gloves based on their performance level.

Click the impact protection image to select impact gloves based on performance levels.





OUR GLOVES BY IMPACT PROTECTION RATING



Gloves with the **Impact Level 2** rating can transmit up to and including \leq 6.5 kN of mean transmitted force to the back of the hand.







We're expanding our ForceFlex® line of multi-task gloves. We are proud to be the first manufacturer to offer D3O® technology high-shock absorbing protection both in the palm and back-of-hand in multi-task gloves. These gloves are must-haves for anyone in the oil and gas, construction, mining, manufacturing, demolition, transportation, and landscaping industries, as well as anyone who operates heavy equipment. **See them in action!**





FF2930 FORCEFLEX® MULTI-TASK

D3O® Back of Hand and Padded Palm Gloves Available in sizes M–XXL.



FF2930's great features:

- Back of hand D3O® impact dissipation up to 54% better while 57% thinner
- D3O® Impact dissipation on fingers up to 46% better while 37% thinner
- Patented D3O® palm padding helps dissipate impact and vibration
- Orange MaxGrid[™] pattern reinforced palm tailored to provide grip in dry, wet, or oily conditions



OUR GLOVES BY IMPACT PROTECTION RATING



IMPACT LEVEL 1 Medium Impact Hazards

Gloves with the Impact Level 1 rating can transmit up to and including ≤ 9 kN of mean transmitted force to the back of the hand.



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IMPACT Level 1



Impact level 1 gloves are tough! They'll allow you the ability to get difficult jobs done while protecting your hands from a variety of hazards across a wide range of industries: oil and gas and beyond. From baggage claim to the railroad, salvage to sanitation, construction to demolition, forestry to automotive work, gloves in this category have you covered.

Products with an Impact Level One are broken up into two categories. One category has TPR protection and the other has Predator tire tread TPR protection.

Forceflex TPR protection

- HV100, available in sizes M-XXXL
- KV200, available in sizes M-XXL
- MO100, available in sizes M-XXL
- MO200, available in sizes M-XXL

MCR Safety TPR protection

• MU3634K

MCR Safety Ninja Alchemy TPR protection

N2685HVO

Predator Tire Tread TPR Protection

- PD2901, available in sizes M-XXL
- PD2903, available in sizes M-XXL
- PD2904, available in sizes M-XXL
- PD2906, available in sizes M-XXXL





HV100 Force flex tpr protection



- Rough Kevlar® reinforced palm with EVA padding in a reinforced palm
- Neoprene slip-on cuff with side flex panels
- Reflexite® micro-prismatic retroreflective material on both sides of cuff







IMPACT LEVEL 1 WITH CUT PROTECTION

KV200 Force flex tpr protection



- Adjustable hook and loop wrist closure with pull tab
- Kevlar® 360 lining and TPR padding on back of hand and fingers















MO100

M0100 AND M0200 FORCE FLEX TPR PROTECTION



MO200 100 gram Thinsulate[™] lined with a water and windproof bladder











<u>MO200</u>

- D3O® reinforced palm to assist with impact and vibration
- Tough but touchscreen-friendly synthetic palm scores a high level 4 abrasion
- Shadow Grass® Blades® pattern on the breathable material back



IMPACT LEVEL 1 WITH CUT PROTECTION

MUG3634K MCR SAFETY TPR PROTECTION





DuPont[™] Kevlar.













MUG3634K

- Premium brown goatskin leather
- A second layer of premium brown goatskin in the palm, fingertips and knuckle
- Sewn with DuPont™ Kevlar® thread
- DuPont[™] Kevlar® lined for outstanding cut protection



IMPACT LEVEL 1 WITH CHEMICAL AND LIQUID PROTECTION



N2658HVO NINJA ALCHEMY TPR PROTECTION



N2658HVO

- 14" gauntlet cuff PVC double coated
- 15 gauge nylon shell
- Sandy finish
- Waterproof







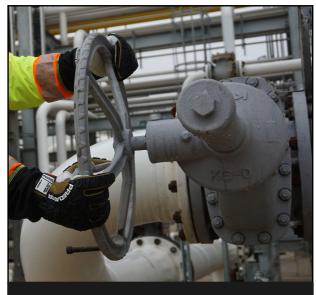




IMPACT LEVEL 1



- PD2901, available in sizes M-XXL
- PD2903, available in sizes M-XXL
- PD2904, available in sizes M-XXL
- PD2906, available in sizes M-XXXL



PD2903 in action at a refinery





PD2901 PREDATOR TIRE TREAD TPR PROTECTION



PD2901

- Multi-task, red textured PU-coated synthetic palm
- High-visibility lime-colored















PD2903

- D3O® palm padding to reduce impact and vibration
- Cow-grain palm
- Reinforced thumb crotch







PD2903 PREDATOR TIRE TREAD TPR PROTECTION







PD2906

- Multi-task, red textured PU-coated synthetic palm
- High-visibility lime-colored

PD2906 PREDATOR TIRE TREAD TPR PROTECTION

















PD2904 PREDATOR TIRE TREAD TPR PROTECTION



PD2904

- Synthetic leather palm
- Polymer pads on fingertips, palm, and thumb crotch









OUR GLOVES BY IMPACT PROTECTION RATING



BUMP PROTECTION

These gloves offer great bump protection in a wide range of industries. They provide back of hand protection and a great grip. Some have a reinforced thumb crotch and several offer additional padding on the palm.

PD2950 PD2951 PD2952 PD2953 PD2954 PD2955







PD2955 PREDATOR TPR BUMP PROTECTION



- Salt and pepper 13-gauge Hypermax[™] synthetic shell
- Black foam nitrile palm and fingers













BUMP AND CUT PROTECTION

PD2954 PREDATOR TPR BUMP PROTECTION



- Salt and pepper 13-gauge Hypermax[™] synthetic shell
- EVA foam-padded palm
- Black foam nitrile palm and fingers













BUMP PROTECTION WITH THERMAL INSULATION

PD2951 PREDATOR TPR BUMP PROTECTION



- Black 15-gauge nylon shell
- 7-gauge brushed acrylic liner
- Black foam nitrile palm and fingers













PD2952 PREDATOR TPR BUMP PROTECTION



PD2952

- Black 10-gauge DuPont™ Kevlar®/synthetic shell
- EVA foam-padded palm
- Black foam nitrile palm and fingers



DuPont[™]









BUMP PROTECTION WITH HIGH DEXTERITY

PD2950 PREDATOR TPR BUMP PROTECTION



- Black 13-gauge nylon shell
- Black foam nitrile palm and fingers









PD2953 PREDATOR TPR BUMP PROTECTION



- Salt and pepper 13-gauge DSM Dyneema® Diamond Technology shell
- EVA foam-padded palm
- Blue foam nitrile palm and fingers







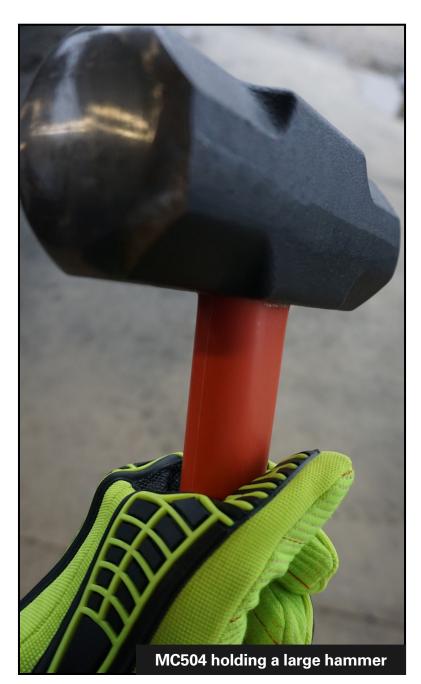






ULTRATECH® TPR BUMP PROTECTION





- MC500, available in sizes S-XXL
- MC502, available in sizes M-XXL
- MC503, available in sizes S-XXL
- MC504, available in sizes M-XXL
- UT2952, available in sizes S-XXL
- UT2953, available in sizes S-XXL





MC500 ULTRATECH TPR BUMP PROTECTION



- Hypermax[™] synthetic shell with brushed nylon lining
- Silicone diamond patterned palm



















- Synthetic leather palm
- G-shaped palm padding with reinforced high-abrasion material
- Padded palm provides impact and vibration reduction





BUMP AND CUT PROTECTION



MC503

- Premium goatskin palm
- DSM Dyneema® Diamond Technology palm lined
- Wing thumb with reinforced thumb crotch

MC503 ULTRATECH TPR BUMP PROTECTION















- Corded cotton double palm for added heat-resistance
- Tested to ANSI Contact Heat Level 2 200°C or 392°F
- Reinforced thumb crotch











UT2952

- 13-gauge salt and pepper Hypermax[™] synthetic shell
- Orange foam nitrile palm and fingers



















- 13-gauge salt and pepper Hypermax[™] synthetic shell
- Red foam nitrile palm and fingers
- Padded palm provides impact and vibration reduction

UT2953 MCR SAFETY TPR PROTECTION















OUR GLOVES BY IMPACT PROTECTION RATING

WELDING IMPACT LEVEL 1 GLOVES

MCR Safety offers a **variety of welding gloves** for all your welding needs. Check out our brand new impact level one welding gloves featured on the upcoming pages.

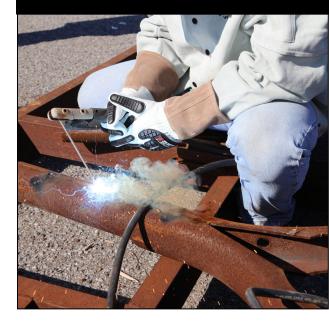


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WELDING IMPACT LEVEL 1 WITH CUT PROTECTION

48406K





<u>48406K</u>

- Premium Top Grain Goatskin
- Padded palm
- Lined with DuPont Kevlar for additional heat and cut protection
- Sewn with Dupont[™] Kevlar®
- 11" total length including a 2.5" brown split cow leather cuff







WELDING IMPACT LEVEL 1

48406T





48406T

- Premium Top Grain Goatskin
- Padded palm
- Thinsulate® lined for protection in cold environments
- Sewn with Dupont[™] Kevlar®
- 11" total length including a 2.5" brown split cow leather cuff









WELDING IMPACT LEVEL 1 WITH CUT PROTECTION

36136HP





36136HP

- Select Grade Grain Goatskin
- Hypermax[™] lined to allow ANSI A4 cut protection
- TPR back for added impact protection







OIL AND GAS INDUSTRY RESOURCES



Didn't find what you were looking for in our guide? No worries. We cover a whole lot more on our **<u>oil and gas</u>** sub-industry pages.



Exploration Drilling and Production



Pipeline Transportation and Storage





Oilfield Equipment and Services

More information about impact protection can be found on our **Impact Protection Resource Page** and in our **blog posts about Impact Protection**. Don't forget to read our post about the new standard, **everything you need to know about the new impact protection standard**.



PROTECTING PEOPLE EVERY DAY

When it comes to safety in the oil and gas industry, our position can be summarized by our motto: We Protect People.

If you have any questions at all about how to choose the right personal protective equipment for yourself or your workers, we are happy to get you pointed in the right direction based on your specific needs.

Just contact us to get started.

