



Personal Protective Equipment

## Anti-Impact Gloves: Exploring Materials, Technologies, and D30 Specific Gloves

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According to the Bureau of Labor Statistics (BLS), approximately 102,350 private-sector hand injuries were reported in 2020. Hand injuries can range from minor cuts and bruises to more severe injuries such as fractures and amputations. So, workers must wear hand protection in hazardous environments. Wearing the proper protective equipment, such as impact-resistant gloves, can significantly reduce the risk of injury if crush and pinch-point hazards are present.



MCR Safety carries multiple Impact level 1, 2, and 3 work gloves.

OSHA's Personal Protective Equipment (PPE) standard (29 CFR 1910.132) requires employers to provide protective gloves when necessary to protect workers against hazards such as cuts, heat, punctures, abrasions, and even impact if that hazard is present on a job site. Impact-absorbing gloves are designed to absorb and dissipate impact energy, reducing the transmitted force and minimizing the risk of injury. They are ideal for workers in demanding environments who need protection and comfort.

MCR Safety understands the importance of hand safety in the workplace, as they've been manufacturing work gloves for over 45 years. They design the best PPE for workers in hazardous environments by choosing the best technology and materials. However, knowing the difference between their options requires insight into what gloves are available, primarily if investing in the highest-rated impact protection is necessary. This article will dive into the materials that make up some of MCR's most popular selling impact gloves and cover the numerous professions requiring such protection.

## OSHA Impact

The Occupational Safety and Health Administration (OSHA) recognizes the importance of protecting workers from crush and pinch hazards in the workplace. According to OSHA, these hazards can result in severe injuries and occur when an individual is caught or compressed between two or more objects or parts of an object. This includes individuals caught or crushed in operating equipment, between other mashing objects, between a moving and stationary object, or between two or more moving objects.

OSHA has established guidelines for a successful safety and health management program, including management commitment and employee involvement, worksite analysis, hazard prevention and control, and safety and health training. In addition, OSHA's Personal Protective Equipment (PPE) *manual* (3151-02R 2023) states that if a workplace hazard assessment reveals employees face potential injury to their hands and arms that isn't eliminated through engineering and work practice controls, employers must ensure that employees wear appropriate protection. Employers have a moral and legal responsibility to protect employees from workplace hazards.

OSHA's guidelines and regulations help ensure that workers are provided with the necessary protection to minimize the risk of injury. Employers can create a safer and healthier work environment by following these guidelines and providing workers with the appropriate protective equipment, including impact-resistant gloves.

## Safety Gloves with Highest Impact Protection

MCR Safety's PD5931 gloves are among their highest-rated impact options designed to provide workers with the best protection possible. These gloves result from extensive research and development, and MCR has carefully selected the best technology and materials to ensure that their PPE provides the highest level of protection.

With its combination of premium quality materials and advanced technology, the PD5931 gloves are a top choice for those looking for the best hand protection. What sets the PD5931 apart from other gloves in MCR Safety's product line is its achievement of the highest ANSI scores in both abrasion and impact. It also scores high in cut and puncture resistance, making it a unique, comprehensive hand protection option.

The TPR back provides ANSI 138 Level 3 impact protection, making it one of the most impact-resistant gloves on the market.

The gloves feature a Sasquatch® leather palm, known for its softness and suppleness, and a black spandex back that offers full TPR back-of-hand and finger protection. In addition to its impact protection, the PD5931 gloves are also cut, abrasion, tear, and impact-resistant, thanks to the HyperMax® cut-resistant palm liner. The reinforced thumb, thumb crotch, and index finger offer superior durability, while the reflective material on both sides of the cuff provides additional high visibility.

## D3O impact gloves

MCR Safety revolutionized the hand safety industry by being the first company to incorporate D3O® Technology into their mechanics' gloves. This cutting-edge technology provides exceptional impact dissipation and shock absorption. The patented material is soft, flexible, and boasts maximum shock-absorbing properties, making it ideal for protecting against crush hazards. The material's molecules flow freely in their raw form, allowing it to be soft and flexible, but upon impact, they lock together to dissipate impact energy and reduce transmitted force.

To ensure the highest quality standards, D3O® Technology undergoes rigorous testing in several independent test laboratories, including SATRA Technology, National Physical Laboratory, INSPEC, and British Standards Institute. D3O®, the company, is also a gold member at SATRA Technology, demonstrating its commitment to providing effective and innovative products.

## Work Gloves with Impact-Resistant Knuckle Pads

The MCR Safety ForceFlex® series now features three options for users: winter, cut and impact, or unlined. The FF2930 mechanics gloves are made with cutting-edge D3O® technology for unparalleled impact protection. This innovative glove features a combination of unmatched impact protection, advanced gripping capabilities, and unparalleled durability, making it the perfect choice for mechanics and workers in demanding environments. These work gloves with impact-resistant knuckle pads register ANSI Level 2 impact performance, the second-highest ANSI impact score.

The FF2931 is their cut- and impact-resistant ForceFlex® series glove. And the FF2932 is known as their winter pipeline impact glove because of its 100-gram Thinsulate™ lining and a waterproof/windproof barrier. It's the perfect option for those working in an oil and gas setting and requiring an insulated impact glove.

*Read this **blog** in its entirety to learn more about all the impact-resistant gloves MCR Safety offers to keep your workers safe on the job.*

*Previously Featured on MCR Safety's blog.*

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