



Personal Protective Equipment

From Leather to Latex: A Comprehensive Look at Glove Materials and Types of Gloves

Brought To You by MCR Safety | Dec 13, 2023

What are gloves made out of? Let's first stress this is a complex answer to a relatively simple question most would consider. Protecting today's modern-day workers from all the potential workplace hazards requires a wide assortment of options. So asking which glove material makes up most of MCR Safety's gloves opens up a lengthy discussion.

Work gloves are essential for protecting workers' hands across almost every industry. They are made from different materials to cater to specific tasks, hazards, and environments. As you can imagine, MCR's glove portfolio has ballooned to over 1,000 gloves utilizing many different materials over time. Today, MCR Safety's work glove lineup consists of roughly 49 materials, utilizing numerous synthetic coatings, man-made fibers, and organic materials. The list of glove materials runs from natural, such as bamboo and cotton, to synthetic string knit materials, such as **DuPont™ Kevlar®**.

How did MCR Safety reach a point where 40+ glove materials were necessary for producing work gloves? Until 1970, leather, cotton, and jersey fabrics represented most of the industry's hand protection offerings. MCR encourages you to read their OHS article, *The Golden Era of Hand Protection*, which provides a historical overview of how they got here. They are in the Golden Age of protecting people's hands.

In general, the different materials improve a glove in one of three areas:

- Better comfort
- Better fit
- Better overall protection

So, what are gloves made out of? MCR Safety will keep this article short as possible and only cover some of the most requested materials for gloves. At the very end of the article, they will also point you toward other articles that dive deeper into glove materials around specific product lines, such as disposable gloves, rain gear, etc. MCR highlights the best materials for gloves:

High-Performance Cut-Resistant Material

Many work gloves incorporate high-performance cut-resistant fibers, essential for workers in industries that involve handling sharp objects. High-performance materials provide users with the most significant protection. Because of their enhanced features, there has been a progressive shift to utilizing more seamless knit shells as liners.

Since OSHA was founded in 1970, the quality of PPE technology has significantly improved, most notably with the advent of recent cut-resistant technologies. High-performance work gloves offer enhanced abrasion, cut, tear, thermal, and puncture resistance protection. The most common, *DuPont™ Kevlar®* and *DSM Dyneema®*, are covered more in the next section.

MCR highlights the most requested high-performance materials in their product lineup.

Aramid Fibers

Aramid fibers create gloves made from a strong, lightweight synthetic fiber that provides exceptional cut and puncture resistance. They are often used in industries that handle sharp objects like glass and metal. Manufacturing industries, such as automotive, are heavy users of aramid-based products.

Below are the two fibers MCR utilizes in producing work gloves:

KEVLAR® fibers withstand temperatures of up to 900°F, making it ideal for cut hazards that involve heat. Its tensile strength is five times stronger than steel in its ability to withstand the amount of tension applied. MCR Safety is a DuPont-licensed manufacturer of *KEVLAR® brand fiber*. MCR Safety is unique in being the only licensed manufacturer that also spins their KEVLAR® yarn.

MCR Safety released a brand-new aramid cut-resistant fiber in 2020. ARX technology provides both cut and heat resistance at affordable price points.

The following link will take you to MCR's section on their glove catalog for all *aramid gloves*. For more on aramids fibers, check out the article *An Overview of Aramid Fibers* which highlights this important high-performance fiber.

HPPE Fibers



HPPE fibers utilize ultra-high molecular weight polyethylene (UHMWPE) fibers, providing excellent cut and abrasion resistance without sacrificing hand movement. They are used heavily in food processing, metal fabrication, and glass handling industries.

Recognized for being 15x stronger than steel, with excellent abrasion and cut protection levels. **Dyneema** is recognized as their premium HPPE fiber, achieving superior comfort and protection. Additionally, when combined with fiberglass or steel, it achieves even higher levels of cut resistance.

Similar to ARX, with technological advancements and MCR's years of manufacturing experience, they can provide the market with an excellent, top-performing, **cost-effective alternative** to current industry-leading HPPE fibers.

The following link will take you to all **HPPE cut-resistant gloves** found in MCR Safety's online glove catalog. In addition, they've created the following **educational technology page** for more insight into HPPE technology.

Their polyester steel wrapped **Steelcore gloves** are one of the strongest cut-resistant options MCR Safety offers. They feature strands of stainless steel wrapped with polyester fiber, an ideal material composition for those who need protection while cutting foods. The FDA-accepted material provides low linting, a feature suitable for those in food processing, and it also doesn't shrink after laundering.

Leather Glove Material

Leather is a traditional and popular material for work gloves. It offers excellent durability, abrasion resistance, and heat resistance. Often overlooked characteristics include absorbing shock and providing good puncture resistance. Below is a good look at the core advantages of leather material.

- Grain leather is the external portion of the hide and provides a smooth, soft, and comfortable

leather. **Grain leather** allows for better hand movement and a sense of touch. It is priced higher than split leather due to its demand from the automobile, furniture, sporting industry, and apparel market.

- The split leather comes from the inner portion of the hide closest to the flesh. Leather's strength is due to the density of fibers and will vary depending on which portion of the hide is used. **Split leather** is valued due to its abundance and diversity.

The most common **leather glove types** are cowhide, goatskin, pigskin, deerskin, and synthetic leather. Each type of leather offers its benefits.

*Continue reading this **blog** in its entirety to learn more about the different types of leather as well as cotton, rubber, nitrile, PVC, neoprene and PU gloves.*

Previously Featured on MCR Safety's blog.

Browse hand protection from MCR Safety on [MSCDirect.com](https://www.mscdirect.com).

www.mscdirect.com/betterMRO

Copyright ©2025 MSC Industrial Supply Co.