



**TEIJIN**

Human Chemistry, Human Solutions



**Safety gloves  
for professionals**

### Putting protection first

Numerous jobs in industry require special care and concentration. Many routine industrial processes involve handling sharp edges or heat, for example glass or metal components. For such activities, glove protection is clearly essential. However, operators often also need a considerable degree of dexterity.

Recognized around the world for providing superior quality, performance, and reliability, Twaron-based safety gloves combine excellent protection with maximum comfort.

At Teijin Aramid we are constantly developing advanced solutions like these, designed to meet today's and tomorrow's needs.

#### Key benefits when using Twaron

- Superior cut resistance
- Very strong, light, durable and comfortable
- Excellent heat protection
- Good abrasion resistance
- Doesn't burn, melt, or adhere to human skin
- Easy to clean

**Twaron**<sup>®</sup>

The power of Aramid

## Heat and cut protection

Gloves made of Twaron para-aramid protect, provide comfort, enhance productivity and ensure safety, day after day. Patented Twaron Microfiber increases wearing comfort by 50% and cutting resistance by 10%.

## The ideal cut protection material

Twaron is a high-performance, superior strength yarn made of para-aramid. A complex spinning process transforms this polymer into filaments with an exceptional combination of properties:

- superior strength
- outstanding heat resistance
- excellent flexibility
- high impact resistance
- ultra lightweight

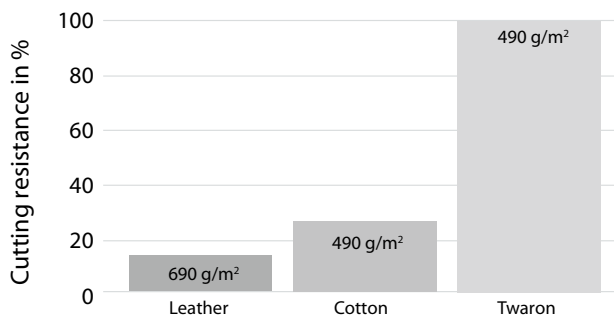
These properties give Twaron a distinct advantage over other fibers.

## A superior product begins with a superior material

Compare the performance of the most common glove materials:

	Heat resistance	Cut resistance	Abrasion resistance
Cotton	--	-	--
Leather	+	--	-
<b>Twaron (Para-aramid)</b>	++	++	+
Polyamid	-	-	+
UHMW Polyethylene	--	+	++
Polyester	-	--	--

++ Excellent + Good - Low -- Poor



Cutting resistance of Twaron in comparison with leather and cotton.

From these tables it's clear that Twaron provides the highest collective protection, with four times better cut resistance than cotton, and eight times better than leather. Even after prolonged exposure to temperatures up to 250°C (500°F), Twaron consistently retains its special properties.

## Cut costs, add value

Twaron gloves can withstand multiple washings. Cleaning doesn't significantly affect their cut-resistant or flame-retardant properties. Durable products made from para-aramid thus reduce lifetime costs, providing greater value.

## Safe and environmentally friendly

Twaron is Oeko-tex certified. This means that it contains no substances that are harmful to human health or the environment. Working closely with major glove manufacturers, we run an environmentally friendly buy-back and recycling program.



## On the cutting edge worldwide

At Teijin Aramid we're dedicated to providing safety for professionals around the globe. Our Twaron Premium Line Products provide further enhanced cut protection and comfort. Moreover, Twaron filament yarns offer a low-lint solution for clean-room applications and are suitable for dipped gloves. Whatever your needs, with Twaron, comfortable, cut and heat-resistant fiber technology can be customized to meet your requirements.

For more information, please email us at [heat-cut-protection@teijinaramid.com](mailto:heat-cut-protection@teijinaramid.com) or visit [www.teijinaramid.com](http://www.teijinaramid.com)

*We do not accept any liability for the results of the use of these products.*

*The technical data in this leaflet reflects our best knowledge at the time of publication. The content of this leaflet is subject to change, depending on new developments and findings, and a similar reservation applies to the properties described in it.*

# Twaron®

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