

Promoting Safety & Productivity through Ergonomic Glove Design

Gloves help protect workers from immediate safety threats. Ergonomic gloves provide an extra layer of protection against an invisible workplace hazard – the strain of repeated movement.



What is ergonomics?



Multidisciplinary

Ergonomics brings together engineering, biomechanics and psychology to enhance products and environments.



Human-centric

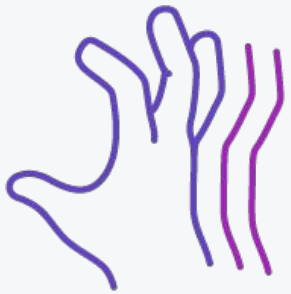
By considering human factors in the design process, ergonomics can lead to reduced stress, increased user satisfaction and better compliance.



Harm-reducing

Ergonomic research looks to minimize the risk of fatigue, musculoskeletal disorders (MSDs) and other work-related injuries.

Why does comfort matter?



Repetition becomes a burden

Routine tasks that put stress on the muscles, joints or nerves can put workers at risk for repetitive motion injuries.¹



Discomfort may lead to injuries and non-compliance

Uncomfortable gloves are more likely to be removed mid-shift. They've also been linked with reduced circulation, numbness, limited motion, fatigue and poor performance.²



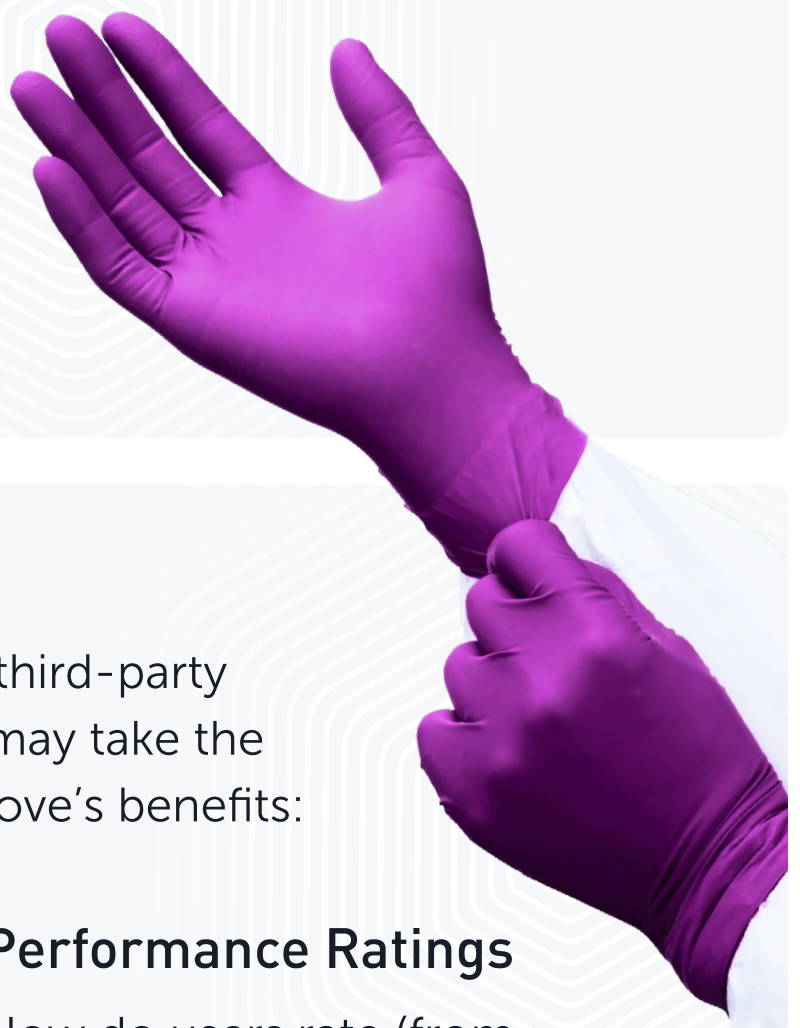
Injuries are costly

The median number of workdays missed due to a hand injury is five.³ On top of potential absences, worker's compensation for hand-related injuries averaged over \$25,000.⁴

Characteristics of well-designed gloves

Tactile sensitivity

Textured fingertips can greatly impact tactile sensitivity and dexterity. Gloves that provide good wet and dry grip can help prevent injuries such as tendonitis.⁵



Third-party certifications

Look for gloves that are certified by a reputable third-party organization. Agencies such as US Ergonomics may take the following data into account when assessing a glove's benefits:



Hand Fatigue

Are the user's hands tired after prolonged wear?



Performance Ratings

How do users rate (from 0 to 10) overall performance, grip and flexibility?



Muscular Effort

What is the user's exertion level compared to the bare-handed condition?



Comparative Advantages

How do users rate the ease of donning and doffing, and overall comfort compared to other gloves?

Sample our most advanced gloves

Experience a pair of gloves with the US Ergonomics seal of approval. Kimtech™ Polaris™ gloves were developed with ergonomic principles in mind to offer all-day comfort in the lab or industrial settings.

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1 OSHA, OSHA FACTSHEET LABORATORY SAFETY ERGONOMICS, OSHA FACTSHEET PPE
2 Health & Safety International, ergonomic_gloves_56, (healthandsafetyinternational.com)
3 Hand Injuries: Risk and Cost | MedExpress
4 National Safety Council Injury Facts, 2019-2020 data, Workers' Compensation Costs - Injury Facts, (nsc.org)
5 Workplace Safety North (WSNI), SEB-Cleanroom-Manual.pdf, (unlv.edu)