

Purpose: To provide guidance on hand injury prevention, assist with identifying adequate defenses and aid the user in appropriate hand protection selection.

Recommended Defenses

Defenses must be appropriate to for the work activity:

- Eliminating or improving a work process to reduce severity
 - (e.g., cut away from yourself)
 - Utilizing the most appropriate tool for the job
 - (e.g., knives and other open bladed tools should be replaced with safer alternative when possible)
 - Well maintained tools
 - (e.g. do not use dull, poorly maintained knives)
 - The type of material and effects on tool being used
 - (i.e. best way to cut, or drill, incorporating a vice clamp).
 - Addressing pinch points or line of fire.
 - Mitigating impacts from concurrent activities.
 - The most appropriate glove for the job.
 - (e.g. job specific hazard assessment and permit considers most appropriate glove for task)
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Glove

Task appropriate, properly fitting gloves must be the last line of defense and:

- Be fit-for-purpose and provide the best protection (e.g. cut resistance)
 - Correctly fit the hands of the user.
 - Be suitable for the weather conditions and/or thermal hazards.
 - Be inspected for wear and damage prior to use.
 - Be removed from service if defective or worn out.
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Use of Glove Chart

To properly use the glove chart below assess the risk of the task. Consider the following hazards:

- Physical hazards (line of fire, sharps, piercing objects, crush points)
- Temperature extremes, cryogenic properties
- Chemical exposures (e.g. pH, toxicity)
- Infectious potential or biological hazards
- Environmental factors (e.g. winter conditions, wind)

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Glove Type	Description	Preferred Qualities	Example
Anti-Vibration	Protect workers hands when working with vibrating equipment (e.g. power tools) without sacrificing dexterity.	<ul style="list-style-type: none"> vibration -reducing shock-absorbing 	
Armored / Impact Resistant Gloves	Protects workers hands from pinching, impact, scratches, scrapes and bumps.	Refer to ANSI/ISEA 138 for task specific impact-resistance requirements. Consider: <ul style="list-style-type: none"> back-of-hand impact protection abrasion resistance 	
Chemical Resistant Gloves	Prevents workers hands and forearms from contacting hazardous materials. Check manufacturer's specifications as gloves may not be impervious to all chemicals.	<ul style="list-style-type: none"> Neoprene flock lined, 18 mm PVC Flexible PVC Soft Jersey Lining Nitrile Broad range resistant gloves Assured grip in grease and oil 	
Coated Gloves	<ul style="list-style-type: none"> Combines a wide range of knits with different palm coatings. May combine cotton, nylon, Kevlar®, Dyneema® or composite yarn with coatings like latex, PVC, polyurethane, nitrile, etc. 	<ul style="list-style-type: none"> High dexterity, good grip in wet or oily situations (e.g. foam nitrile). 	
Cold-Condition Gloves	<ul style="list-style-type: none"> Protects workers from the effects of cold (i.e. frostbite), moisture and wind. 	<ul style="list-style-type: none"> Split Leather Cowhide Thinsulate Lined. 	
Cryogenic Gloves	<ul style="list-style-type: none"> Protects workers from extreme cold conditions. 	<ul style="list-style-type: none"> Non-cracking, flexible. Highly insulated. Waterproof. 	
Cut-Resistant Gloves	<ul style="list-style-type: none"> Protects workers hands from cuts and abrasions. Does not protect from punctures. 	<ul style="list-style-type: none"> Refer to ANSI Cut Levels (A1-A9) for task specific cut resistance requirements. 	
Electrical Gloves	<ul style="list-style-type: none"> Protect workers hands from blast concussions, flame, fire and heat episodes from an arc flash. 	<ul style="list-style-type: none"> Durable, flexible. Voltage protection as per hazard assessment. 	
General Purpose	<ul style="list-style-type: none"> General purpose Light duty protection 	<ul style="list-style-type: none"> Foam Nitrile Coated Knit Nylon Liner 	
First Aiders/ Food Preparation/ Clean Room or Lab	<ul style="list-style-type: none"> Light duty Protects workers from the effects of acids, alcohols, ketones and alkalis, biological hazards For sanitation requirements. 	<ul style="list-style-type: none"> Nitrile or Latex Powder Free Thickness (5 mm) Smooth fingertips 	
Leather Gloves	<ul style="list-style-type: none"> Protects workers hands from rough surfaces, scraping objects, welding sparks and moderate heat. 	<ul style="list-style-type: none"> Leather Safety cuff Grain leather fitters 	
Heat Resistant/ Welding Gloves	<ul style="list-style-type: none"> Protects workers hands during high heat activities. 	<ul style="list-style-type: none"> Leather Dexterity and protection 	