**Chemical Resistant Glove Guide**

*Source: “Industrial Safety & Health News”, 9/97*

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| **Fabric:** | Natural rubber |
| **Advantages:** | Low cost, good physical properties, dexterity |
| **Disadvantages:** | Poor vs. oils, grease, organics. Frequently imported; may be poor quality |
| **Uses:** | bases, alcohols, dilute water solutions; fair vs. aldehydes, ketones |
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| **Fabric:** | Natural rubber blends |
| **Advantages:** | Low cost, dexterity, better chemical resistance than natural rubber vs. some chemicals |
| **Disadvantages:** | Physical properties frequently inferior to natural rubber |
| **Uses:** | Same as natural rubber |
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| **Fabric:** | Polyvinyl chloride (PVC) |
| **Advantages:** | Low cost, very good physical properties, medium chemical resistance |
| **Disadvantages:** | Plasticizers can be stripped; frequently imported; may be poor quality |
| **Uses:** | Strong acids and bases, salts, other water solutions, alcohols |
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| **Fabric:** | Neoprene |
| **Advantages:** | Medium cost, medium chemical resistance, medium physical properties |
| **Disadvantages:** | NA |
| **Uses:** | Oxidizing acids, anilines, phenol, glycol, ethers |
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| **Fabric:** | Nitrile |
| **Advantages:** | Low cost, excellent physical properties, dexterity |
| **Disadvantages:** | Poor vs. benzene, methylene chloride, trichlorethylene, many ketones |
| **Uses:** | Oils, greases, aliphatic chemicals, xylene, perchloroethylene, trichloroethane; fair vs. toluene |
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| **Fabric:** | Butyl |
| **Advantages:** | Specialty glove, polar organics |
| **Disadvantages:** | Expensive, poor vs. hydrocarbons, chlorinated solvents |
| **Uses:** | Glycol ethers, ketones, esters |
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| **Fabric:** | Polyvinyl alcohol (PVA) |
| **Advantages:** | Specialty glove, resists a very broad range of organics, good physical properties |
| **Disadvantages:** | Very expensive, water sensitive, poor vs. light alcohols |
| **Uses:** | Aliphatics, aromatics, chlorinated solvents, ketones (except acetone), esters, ethers |
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| **Fabric:** | Fluoroelastomer (Viton) |
| **Advantages:** | Specialty glove, organic solvents |
| **Disadvantages:** | Extremely expensive, poor physical properties, poor vs. some ketones, esters, amines |
| **Uses:** | Aromatics, chlorinated solvents, also aliphatics and alcohols |
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| **Fabric:** | Norfoil (Silver Shield) |
| **Advantages:** | Excellent Chemical resistance |
| **Disadvantages:** | Poor fit, easily punctures, poor grip, stiff |
| **Uses:** | Use for hazmat work |