

## CE MARKING, EUROPEAN DIRECTIVE FOR PERSONAL PROTECTIVE EQUIPMENT (89/686/EEC)

This directive applies to any personal protective equipment (PPE) designed to be worn and held by an individual for protection against one or more health and safety hazards.

Rubberex glove range carries the CE mark and conforms to the European Norm standard. They are designed to offer protection against 3 types of risk, mainly minimal, intermediate and complex risk application.

Our products are subjected to EC type examination for gloves to follow the standards in line with the directive mainly EN 420, EN 421, EN 374 and EN 388. Most of our current range of gloves for complex risk application have been tested and upgraded to the new EN 374-1:2003 standard.

## GUIDE AND UNDERSTANDING OF THE NEW EN 374:2003 STANDARD

### EN 388:2003 PROTECTIVE GLOVES AGAINST MECHANICAL RISKS



X X X X

Puncture Resistance  
 Tear Resistance  
 Blade Cut Resistance  
 Abrasion Resistance

Level	1	2	3	4	5
Abrasion resistance (No. of cycles)	100	500	2000	8000	—
Blade cut resistance (index)	1.2	2.5	5.0	10.0	20.0
Tear Resistance (N)	10	25	50	75	—
Puncture resistance (N)	20	60	100	150	—

### EN 374-1:2003 PROTECTIVE GLOVES AGAINST CHEMICALS AND MICROORGANISMS



X X X

Mandatory challenge chemicals	
A. Methanol	G. Diethylamine
B. Acetone	H. Tetrahydrofurane
C. Acetonitrile	I. Ethyl Acetate
D. Dichloromethane	J. n-Heptane
E. Carbon Disulphide	K. Sodium Hydroxide 40%
F. Toluene	L. Sulphuric Acid 96%

Gloves must achieve minimum level 2 (> 30 minutes permeation breakthrough time), EN 374-3:2003, against 3 of these chemicals. Gloves must also pass penetration testing to EN 374-2:2003.

Letters corresponding to chemicals from the above mandatory list with minimum level 2 permeation resistance. The 1994 version of the standard did not include mandatory chemicals and its pictogram shows no letters.

	<b>EN 374-1:2003 CLAUSE 5.2.1 PROTECTION AGAINST WEAK CHEMICALS (WATERPROOF)</b> Gloves must be tested for penetration (leakage) according to EN 374-2:2003 but need have not been tested against chemical permeation.
	<b>EN 374-1:2003 CLAUSE 5.2.1 PROTECTION AGAINST MICRO-ORGANISMS</b> Gloves have been tested according to penetration (leakage) according to EN 374-2:2003 and production batches are statistically tested to level 2 (AQL 1.5) but need have not been tested against chemical permeation. Such gloves may not protect against all viruses.
	<b>EN 421:1994 PROTECTIVE GLOVES AGAINST RADIOACTIVE CONTAMINATION</b> Impermeability of the glove protects against contamination by dust, gases, liquids or mixtures. Testing may be by EN 374-2 or an air leak test. Other requirements may include a lead equivalent for radioactive protection, mechanical resistance to EN 388 and chemical resistance to EN 374-3.
	<b>INFORMATION PICTOGRAM</b> The pictogram or 'i' symbol shown on other pictogram indicates that user information is available and should be read.

**EN 420:2003 PROTECTIVE GLOVES** - General requirements and test methods. All gloves are tested and subjected to compliance of EN 420:2003 which is a reference of the CE standard.

### FDA CFR TITLE 21 PART 177.2600

Most range of gloves have components material in compliance with FDA CFR Title 21, Part 177.2600 and are safe for repeated use and contact against food.

	<b>CERTIFIED FOR GERMAN FOOD STUFFS AND CONSUMER GOODS ACT.</b> All gloves are tested and certified with the German Foodstuffs and Consumer Goods Act, may be used safely during the preparation and handling of food and may stand in direct contact with foodstuffs for a period of time.
	<b>LATEX PROTEIN TESTING / MONITORING - REDUCED ALLERGEN</b> Our close agreement and collaboration with GAF (Gesellschaft für Allergieforschung mbH), a company for Allergy Research in Germany enable us to constantly produce reduced allergen level natural rubber gloves. GAF 'reduced allergen' label is used on Rubberex packages, an assurance to end user that our gloves are produced within the permanent process of supervision by independent party and show protein/allergen levels that is internationally discussed and accepted between scientific community and authorities.

### CHEMICAL RESISTANCE TESTING / INFORMATION

As part of our extensive technical support program, we offer information of chemical resistance and performance of Rubberex gloves. A wide range of chemical resistant chart for gloves are available. Gloves are tested for chemical permeation breakthrough time and degradation ratings. These charts serve as guidance to choose a correct glove suitable for its application. \*\*\*please refer to chemical resistance chart at the back page