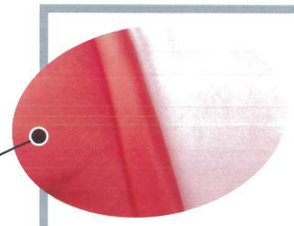
SHIELDskin CHEM™

A revolution in Glove Technology

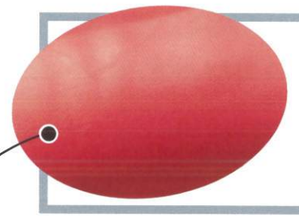
SUPERIOR PROTECTION FOR THE HANDS

In response to growing user demand for a glove offering a higher level of protection in the laboratory but without compromising comfort and dexterity, SHIELD Scientific has developed the SHIELDskin CHEM™ range of gloves. Specifically SHIELDskin CHEM™ NEO NITRILE™ 300 represents a new era in glove technology combining enhanced compliance, comfort and protection. This is achieved by virtue of the multi-polymer design coupled with the elasticity afforded by Skin Nitrile™ technology. Apart from being registered according to Council Directive 89/686/EEC as Personal Protective Equipment Category III (Complex Design), SHIELDskin CHEM™ qualify as chemical resistant gloves having achieved a minimum breakthrough time of thirty minutes in at least four of the twelve chemicals listed in EN374-1: 2003



Double dipping

The multi-polymer design combines with the innovative double-dipping process associated with Skin Nitrile™ technology to offer greater protection. The extra length of 30cm and gauge thickness of 0,35 mm further enhance protection, whilst preserving comfort and dexterity.

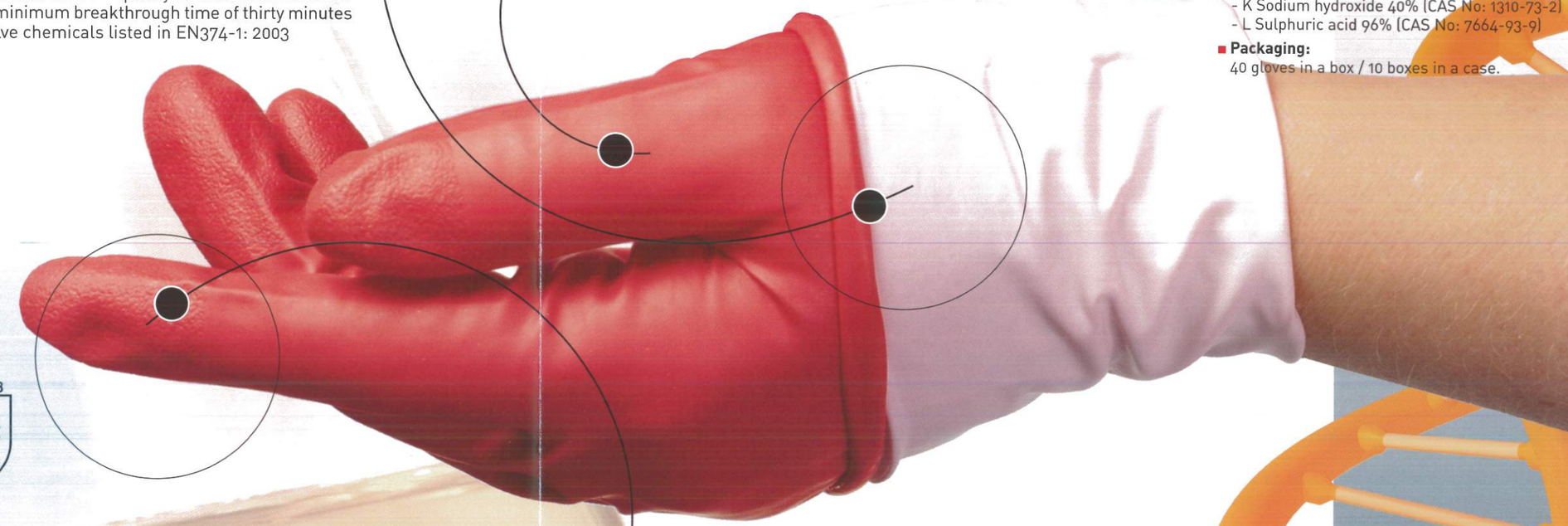


Colour

The red colour is symbolic of chemical risk and alerts users to the dangerous nature of their work.

KEY FEATURES

- **Material:** neoprene and acrylonitrile-butadiene.
- **Length/ Thickness:** 300mm / 0,35mm (fingertip).
- **Colours:** red / white.
- **Design:** ambidextrous, beaded cuff and textured fingertips.
- **Manufacturing process:** Double-dipping / double chlorination / Extra washing.
- **Registration status:** 89/686/EEC – PPE Category III
- **Applicable norms:** EN420:2003 + A1:2009, EN388:2003, EN374-1:2003, EN374:2:2003 Level 3 & EN374-3:2003.
- **Test chemicals (as defined in annex A of EN374-1 :2003) where permeation performance level 2 (>30 minutes) has been achieved:**
  - A Methanol (CAS No:67-56-1)
  - J n-Heptane (CAS No:142-85-5)
  - K Sodium hydroxide 40% (CAS No: 1310-73-2)
  - L Sulphuric acid 96% (CAS No: 7664-93-9)
- **Packaging:** 40 gloves in a box / 10 boxes in a case.



PPE* Cat III

CE 0120

EN388:2003 — 3000

EN374-2-2003 — LEVEL 3

AQL of 0,65

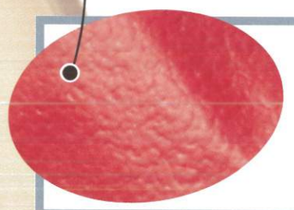
AQL of 0,65 (Level 3), according to EN374-2:2003, gives the highest level of resistance to penetration from chemicals and micro-biological hazards.

EN374-3-2003 — AJKL

Resistance to permeation

The glove resists for more than thirty minutes four out of the twelve chemicals outlined in EN374-1 :2003 and when tested according to EN374-3 :2003.

*PPE : Personal Protective Equipment.



Grip design

The textured surface of the fingertips is designed to provide better grip in wet or dry conditions.

SHIELDskin CHEM™ NEO NITRILE™ 300 — 100% latex-free, powder-free, extra-long, ambidextrous, non-sterile, 30cm, textured fingertips. .

Size	XS/6	S/7	M/8	L/9	XL/10	XXL/11	Gloves/Box	Boxes/Case
Code	669251	669252	669253	669254	669255	669256	40	10

www.shieldscientific.com

An interactive and innovative guide to chemical resistance

When it comes to chemical exposure, we wish to draw attention to the fact that not all gloves are the same. Performance may vary significantly depending on type of material, conditions of use, length and especially thickness. In general the thicker the glove, the higher the level of protection to chemical and micro-biological hazards.

To help users in their risk assessments for evaluating personal protection to chemical exposure, SHIELD Scientific has developed one of the most comprehensive chemical resistance guides. Data can be selected either by CAS number, chemical name or product type. The testing has been conducted by reputable testing laboratories (Respirex, STFI & Centexbel) according to EN374-3:2003 (Determination of resistance to permeation by chemicals).

Access the chemical resistance guide on www.shieldscientific.com and search for information by CAS number, chemical name or glove product.

EN374-3 :2003 is the standard method in Europe for evaluating the chemical barrier performance of a glove. As such one layer of the glove is placed between two chambers. The chemical being tested is placed on one side and the receiving fluid on the other. Breakthrough occurs when a permeation rate of 1µg/cm-2/min-1 is noted and is reported in minutes. This test is a total immersion test and may not be representative of the environment, where disposable gloves are used. Here the emphasis is typically on incidental chemical exposure and the gloves will often be changed once a chemical splash has been observed. It is also important to remember that the tests are done on unused gloves under laboratory conditions. In this respect the test temperature is 23°C (+/-1°C). The test methodology does not take into account the stresses and strains to which disposable gloves are subjected whilst being worn. Similarly a glove in-use is likely to be significantly warmer than an unused glove and the higher level of surface heat may accelerate chemical permeation.

Whilst we have endeavoured to show most of the test data that is currently available, the Chemical Resistance Guide is constantly being updated. Likewise we have chosen not to include data that may be of a very specialist nature (e.g. testing against various chemotherapy drugs). Therefore if you cannot find the chemical test data that you are seeking, please do not hesitate to contact us.

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SHIELDskin CHEM™

SHIELDskin CHEM™ NEO NITRILE™ 300

The glove for chemical protection in the laboratory

NEW
INNOVATIVE
PRODUCT