

EN ISO374-1:2016 (Protective gloves against dangerous chemicals and micro-organisms)

PART 1: TERMINOLOGY AND PERFORMANCE REQUIREMENTS FOR CHEMICAL RISKS:

The chemicals break through the glove material at a molecular level. The breakthrough time is here evaluated and the glove must withstand a breakthrough time of at least:

Type A – High protection, with a permeation resistance of at least 30 minutes for at least 6 test chemicals.

Type B – Medium protection, with a permeation resistance of at least 30 minutes for at least 3 test chemicals.

Type C – Basic protection, with a permeation resistance of at least 10 minutes for at least 1 test chemical





The third row in the pictogram for Type A and B indicates which chemicals, in the table below, the glove protects against. Type C doesn't have a third row and withstand 1 chemical only for a short while.

EN ISO 374-1:2016 specifies 18 test chemicals used to evaluate the permeation resistance of protective gloves. Each chemical is assigned a code letter for selection guidance:

CODE LETTER	CHEMICAL	CAS NO.	CLASS
Α	Methanol	67-56-1	Primary alcohol
В	Acetone	67-64-1	Ketone
С	Acetonitrile	75-05-8	Nitrile compound
D	Dichloromethane	75-09-2	Chlorinated hydrocarbon
Е	Carbon disulphide	75-15-0	Sulphur containing organic compound
F	Toluene	108-88-3	Aromatic hydrocarbon
G	Diethylamine	109-89-7	Amine
Н	Tetrahydrofuran	109-99-9	Heterocyclic and ether compund
	Ethyl acetate	141-78-6	Ester
J	n-Heptane	142-82-5	Saturated hydrocarbon
K	Sodium hydroxide 40%	1310-73-2	Inorganic base
L	Sulphuric acid 96%	7664-93-9	Inorganic mineral acid, oxidizing
М	Nitric acid 65%	7697-37-2	Inorganic mineral acid, oxidizing
N	Acetic acid 99%	64-19-7	Organic acid
0	Ammonium hydroxide 25%	1336-21-6	Organic base
Р	Hydrogen peroxide 30%	7722-84-1	Peroxide
S	Hydrofluoric acid 40%	7664-39-3	Inorganic mineral acid
Т	Formaldehyde 37%	50-00-0	Aldehyde