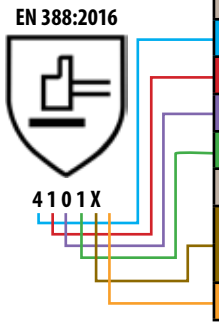
Gloves
EN Certification - Mechanical

EN388:2016 – Gloves for protection against mechanical hazards

Gloves are tested according to resistance to up to 6 mechanical hazards - the first four are compulsory, the final two are optional. Results are classified according to the table below.

Classifications are listed underneath the pictogram shown on the glove labelling as shown for Nitrosol EN15.

"P" may be added if an impact test has been conducted



EN388 Mechanical Properties - Each digit indicates the classification for a mechanical property

Digit	Property	Unit	Classification Level						
			1	2	3	4	5		
1st Digit	Abrasion Resistance	Rubs	100	500	2000	8000		Compulsory	
2nd Digit	Blade Cut Resistance	Index	1.2	2.5	5	10	20	Compulsory	
3rd Digit	Tear Resistance	Newtons	10	25	50	75		Compulsory	
4th Digit	Puncture Resistance	Newtons	20	60	100	150		Compulsory	
			A	B	C	D	E	F	
5th Digit	TDM F Cut Resistance	Newtons	2	5	10	15	20	30	Optional
			"X" indicates "Not Tested"						
6th Digit	Impact protection	If tested "P" is shown. No "P" present indicates not tested.							Optional

Gloves
EN Certification - Chemical

EN 374:2016 Gloves for protection against chemical hazards

Gloves are tested for permeation resistance against a specific list of 18 chemicals, measuring "breakthrough" as the time until a permeation rate of 1.0µg/min/cm² is achieved. Results are classified according to the tables below.

Time in minutes to breakthrough at 1.0µg/min/cm²	Classification
> 10 min	1
> 30 min	2
> 60 min	3
> 120 min	4
> 240 min	5
> 480 min	6

The list of chemicals is shown below. Each is identified by a letter.

	Chemical	CAS Number		Chemical	CAS Number
A	Methanol	67-56-1	J	n-Heptane	142-82-5
B	Acetone	67-64-1	K	Sodium Hydroxide 40%	1310-73-2
C	Acetonitrile	75-05-8	L	Sulphuric Acid 96%	7664-93-9
D	Dichloromethane	75-09-2	M	Nitric Acid 65%	7697-37-3
E	Carbondisulphide	75-15-0	N	Acetic Acid 99%	64-19-7
F	Toluene	108-88-3	O	Ammonium Hydroxide 35%	1336-21-6
G	Diethylamine	109-89-7	P	Hydrogen Peroxide 30%	7722-64-1
H	Tetrahydrafuran	109-99-9	S	Hydroflouric acid 40%	7664-39-3
I	Ethylacetate	141-78-6	T	Formaldehyde	50-00-0

Minimum performance requirements are that gloves should achieve a Class 2 level on at least 3 of the listed chemicals.

Type A: Gloves with permeation resistance of at least 30 minutes against at least 6 test chemicals.

Type B: Gloves with permeation resistance of at least 30 minutes against at least 3 test chemicals.

Type C: Gloves with permeation resistance of at least 10 minutes against at least 1 test chemical.

Gloves are labelled with the relevant pictogram with the letters representing the chemicals for which a Class 2 has been achieved, along with the glove type

The classifications and Type of Lakeland chemical gloves are shown in the table below:

Chemical Glove Certification		Mechanical Properties	Chemical Penetration Classification
Glove	Product Code	EN 388:2016 Classifications	EN ISO 374-5:2016 Classifications
Nitrosol™ Nitrile	EN15	4101X	AJKLOT (Type A)
Nitrosol™ Nitrile	EN15F	4101X	AJKLOT (Type A)
Nitrosol™ Nitrile	EN19F	4102X	AJKLOT (Type A)
Natrasol™ Natural	ER18F	2010X	KLM (Type B)
Natrasol™ Natural	ER28F	1020X	KLM (Type B)
Neolasol™	ECR27F	2121X	AKL (Type B)
Neosol™ Neoprene	EC30F	3131X	AKLMNO (Type A)

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