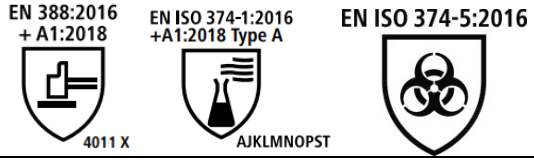
Technical File

KERBL

Chemical Resistant Glove Chemex



Description	Chemical glove with a strong nitrile coating Length 33 cm Wall thickness: 0,85 mm Surface for good grip in both dry and wet conditions (Reverse Lozenge) Cuff end: straight
Material	Carrier fabric: Cotton (supported) Coating: Nitrile
Application areas	Farming, engineering, oil industry, painting
Product benefits	Sweat-absorbing, comfortable Latex-free, suitable for allergy sufferers Chemical and microbial resistance Excellent abrasion resistance Structured surface for good grip in both dry and wet conditions
Single packaging	headercard
Standards	CAT III, EN 388:2016+A1:2018, EN ISO 374-1:2016+A1:2018, EN ISO 374-5:2016

Evaluation

Rating	Range (• - •••••)
Durability	•••••
Dexterity	••
Moisture protection	•••••
Resistant to oil/grease	•••••
Slip-resistance	••••
Breathability	

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Logistical Data

Item no.	Size	Barcode	MOQ	Packaging Unit	Pal
297646	8 / M	4018653971314	1 Pair	1/6/60	1920
297647	9 / L	4018653971321	1 Pair	1/6/60	1920
297648	10 / XL	4018653971338	1 Pair	1/6/60	1920
297649	11 / XXL	4018653059944	1 Pair	1/6/60	1920

Certification

A) Mechanical resistance according to EN 388:2016+A1:2018

Feature	Level	Range
Abrasion resistance	4	Min 0 / Max 4
Cut resistance (Coupe-Test)	0	Min 0 / Max 4
Tear resistance	1	Min 0 / Max 4
Puncture resistance	1	Min 0 / Max 4
Cut resistance (ISO 13997)	X	A-F (X=not tested)

B) Chemical resistance according to EN ISO 374-1:2016+A1:2018, Type A, EN 374-4:2013

ID	Substance	CAS-Nr.	Class	Performance level*	Degradation
A	Methanol	67-56-1	Primary alcohol	2	41,8 %
J	n-Heptane	142-82-5	Aliphatic hydrocarbon	6	14,0 %
K	Sodium Hydroxide 40%	1310-73-2	Inorganic base	6	-19,3 %
L	Sulfuric acid 96%	7664-93-9	Anorganic acid, oxidizing	3	43,5 %
M	Nitric acid 65%	7697-37-2	Anorganic acid, oxidizing	2	36,4 %
N	Acetic acid 99%	64-19-7	Organic acid	2	24,5 %
O	Ammonia water 25%	1336-21-6	Organic base	4	-10,8 %
P	Hydrogen peroxide	7722-84-1	Peroxide	6	-0,2 %
S	Hydrofluoric acid	7664-39-3	Inorganic acid	3	X
T	Formaldehyde 37%	50-00-0	Aldehyde	6	-7,0 %

*legend:

Performance level	1	2	3	4	5	6
Breakthrough time (min)	>10	>30	>60	>120	>240	>480

C) Microbial resistance according to EN ISO 374-5:2016

Protection against bacteria and fungal spores: pass
Protection against virus: not tested

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Results of further (internal) tests on selected substances (breakthrough times)

Substance	CAS Nr.	Breakthrough time [min]	Performance level (CE)	Degradation [%]
Organic acids				
Acetic Acid - Glacial	64-19-7	78	3	24,5
Acetic Acid, 10%	64-19-7	>480	6	10,6
Acetic Acid, 20%	64-19-7	>480	6	12,4
Acetic Acid, 25%	64-19-7	>480	6	13,7
Formic Acid, 95%	64-18-6	10	1	X
Oxalic Acid 12.5%	144-62-7	>480	6	X
Tannic Acid 37.5%	1401-55-4	>480	6	X
Citric Acid 10%	77-92-9	>480	6	X
Inorganic acid				
Hydrofluoric Acid, 40%	7664-39-3	90	3	X
Hydrofluoric Acid, 48%	7664-39-3	30	2	X
Hydrochloric Acid, 10%	7647-01-0	>480	6	8,8
Hydrochloric Acid, 37%	7647-01-0	100	3	12,9
Nitric Acid, 40%	7697-37-2	390	5	15,2
Nitric Acid, 10%	7697-37-2	>480	6	2,8
Nitric Acid, 65%	7697-37-2	48	2	36,4
Ortho Phosphoric Acid	7697-37-2	>480	6	X
Phosphoric acid , 85%	7664-38-2	>480	6	X
Sulphuric Acid, 40%	7664-93-9	>480	6	16,5
Sulphuric Acid, 50%	7664-93-9	>480	6	18,5
Sulphuric Acid, 96%	7664-93-9	76	3	43,5
Alkalis				
Ammonium Hydroxide, 25%	1336-21-6	175	4	-10,8
Pottasium Hydroxide, 50%	1310-58-3	>480	6	-8,2
Sodium Hydroxide, 40%	1310-73-2	>480	6	-4,6
Sodium Hyroxide, 20%	1310-73-2	>480	6	-11,5
Sodium Hydroxide, 50%	1310-73-2	>480	6	-4,4
Alcohols				
Butanol	71-36-3	250		12,5
Ethanol, 96%	64-17-5	>480		20,1
Iso Propyl Alcohol (Propan-2-ol)	67-63-0	>480		10,2
Methanol	67-56-1	38		41,8
Propan - 1 - ol	71-23-8	>480		X
Amyl alcohol	71-41-0	200		X
Diacetone alcohol 99%	123.42-2	70		X
Isobutyl alcohol 99%	78-83-1	240		X

Substance	CAS Nr.	Breakthrough time [min]	Performance level (CE)	Degradation [%]
Cellusolve solvent	110-80-5	25		X
Methyl Cellosolve	109-86-4	200		X
Cyclohexanol	108-93-0	150		X
Ethanol, absolute	64-17-5	>480		54,2
Ketones				
Acetone	67-64-1	<1		88,2
Cyclohexanone	108-94-1	18		74,1
Methyl ethyl ketone	78-93-3	<1		75,2
Methyl Propyl ketone	107-87-9	3		80,1
Aldehydes				
Formaldehyde, 37%	50-00-0	>480		-7
Esters				
Ethyl Acetate	141-78-6	<1		65,4
Butyl Acetate	123-86-4	<1		X
Propyl Acetate	109-60-4	9		X
Diethyphthalate	84-66-2	>480		X
Ethers				
Ethylether	60-29-7	9		X
Aliphatic solvents				
Cyclohexane	110-82-7	>480		8,6
n - Hexane	110-54-3	>480		10,2
n- Heptane	142-82-5	>480		14
Isooctane	540-84-1	245		X
Pentane 98%	109-66-0	241		X
Aromatic solvents				
Toluene	108-88-3	<1		82,4
Xylene	1330-20-7	12		71,5
Thinner	108-88-3	1		89.2
Turpentine	8006-64-2	250		11.5
Stoddard solvent	8051-41-3	248		X
White Spirit	64742-88-7	300		X
Sulphur-based chemicals				
Carbon disulphide	75-15-0	1		X
Dimethyl sulphoxide	67-68-5	15		X
Amines				
Diethyl Amine	109-89-7	<1		94,5
Triethanol Amine	102-71-6	>480		X
Methylamine	74-89-5	15		X
Diethanolamine	111-42-2	20		X

Substance	CAS Nr.	Breakthrough time [min]	Performance level (CE)	Degradation [%]
Chlorinated solvents				
Dichloromethane	75-09-2	<1		92,1
1,2 dichloroethane	107-06-2	<1		X
Chloroform	67-66-3	<1		X
Carbon tetrachloride	56-23-5	<1		X
Trichloroethylene	79-01-6	<1		X
Freon 99.7%	75-69-4	<1		X
Tetrachloroethylene	127-18-4	<1		X
Nitriles				
Hydrogen Peroxide, 30%	7722-84-1	>480		-0,2
Sodium Hypochlorite	7681-52-9	>480		X
Petroleum Derivatives				
Naptha solvent	64742-94-5	15		X
Petroleum Ether	8032-32-4	45		X
Kerosene	64742-81-0	>480		1,2
Diesel Fuel	68334-30-5	>480		3,2
Petrol Unleaded	8006-61-9	130		14,2
Other				
Sodium Silicate		>480		X
Thinner		0		89,82