



# **CHEMICAL GLOVES - IMMERSION**





#### 316 360° Total Coverage

Heavyweight nitrile, 15 mil thickness, sure-grip diamond pattern finish, cotton flock lining, 12" straight cuff

P316 packaged for retail

Size 8-11 EN374-3 - AJKL Performance Level 2663



#### 37185 Ansell Sol-Vex®

Heavyweight nitrile, 22 mil thickness, sure-grip pebble finish, unlined, 18" straight cuff

37175 15 mil thickness, 15" cuff, size 6-11

Size 8-11 EN374-3 - AFGKL Performance Level 42364



EN 374-2

EN 374-3

AFGKL

42364

EN 374-2

EN 374-3

#### 400 360° Total Coverage

Heavyweight rubber latex, 28 mil thickness, sure-grip diamond pattern finish, cotton flock lining, 12" straight cuff

Size 7-11 EN374-3 - KLAB Performance Level 6521



#### 450B Versa Touch

Heavyweight rubber latex, 30 mil thickness, sure-grip pebble finish, cotton flock lining, 12" rolled cuff

Size S-XL EN374-3 - AKL Performance Level 363





#### 454B Marigold

Natural rubber latex, 17 mil thickness, smooth finish, unlined, 12" rolled cuff

Size S-XL EN374-3 - AKL Performance Level 262



# 459B Marigold

Heavyweight natural rubber latex, 30 mil thickness, sure-grip diamond pattern finish, unlined, 12" rolled cuff

Size S-XXL EN374-3 - AKL Performance Level 363



EN 374-3 **KLAB** 6521

EN 374-3

**KLAB** 

6521

#### 500 360° Total Coverage

Heavyweight natural rubber latex, 28 mil thickness, sure-grip diamond pattern finish, cotton flock lining, 12" straight cuff

Size 7-11 EN374-3 - KLAB Performance Level 6521



#### 9341 Foamtastic

Foam lining, double-dipped PVC coating, "Be safe, be seen" with hi-vis safety orange, 12" gauntlet style cuff

**JKL** 

363

Size OS EN374-3 - JKL Performance Level 363





EN 374-2

### WG14 Watson Green

Double-dipped PVC, sure-grip textured finish, 14" gauntlet

also available in a 12" and 18" gauntlet

Size OS

EN374-3 - JKL Performance Level 263





#### 772 Skum Busters

Nitrile, shoulder length, secure elastic top, packaged as a pair

Size M-XL EN374-3 - JKL Performance Level 662





#### **455** Triple Shot

ANSI A3 nylon/glass liner, hi-vis yellow fully coated PVC with sandy finish, proprietary rubber on back of hand, 30cm gauntlet style cuff

Size L-XXL EN374-3 - JKL Performance Level 264





#### 5554PF Grease Monkey®

Black nitrile, powder-free, 5 mil thickness, 9.5" rolled cuff, CFIA approved, 100 gloves/dispenser

Size M-XXL







#### 2222PF 360° Total Coverage

Ice blue nitrile, powder-free, 3 mil thickness, rolled cuff, 100 gloves/dispenser

Size S-XL







#### 37175 Ansell Sol-Vex®

Heavyweight nitrile, 15 mil thickness, sure-grip pebble finish, unlined, 15" straight cuff

37185 22 mil thickness, 18" cuff, size 8-11

Size 6-11 EN374-3 - AKL Performance Level 163







#### 5555PF Grease Monkey®

Black nitrile, powder-free, 8 mil thickness, 9.5" rolled cuff, CFIA approved, 100 gloves/dispenser

Size S-XXL

EN ISO 374-1:2016/TYPE B JKOPT Performance level 46244

EN374-1:2016



**JKOPT** 



#### 8888PF 360° Total Coverage

Blue nitrile, powder-free, 5 mil thickness, rolled cuff, CFIA approved, 100 gloves/dispenser

Size S-XXL





#### 488B Marigold

Natural rubber latex, 18 mil thickness, sure-grip diamond pattern finish, cotton flock lining, 12" rolled cuff

Size S-XL

EN374-3 - ALK Performance Level 116







#### 5557PF Monkey Wrench™

Orange heavyweight nitrile, powder-free, 6 mil thickness, 9.5" rolled cuff, sure-grip textured pattern, 50 gloves/dispenser

Size M-XXL





#### 5558PF Monkey Wrench™

Black heavyweight nitrile, powder-free, 8 mil thickness, 11" rolled cuff sure-grip textured pattern, 50 gloves/dispenser

Also available in a ten pack #5558x10

Size M-XXL EN374-3 - JKL Performance Level 562

EN 374-3

**JKL** 562



#### 4444PF 360° Total Coverage

Teal nitrile, powder-free, 5 mil thickness, rolled cuff, CFIA approved, 100 gloves/dispenser

Size S-XL







#### 326B Marigold

Natural rubber latex, 21 mil thickness, sure-grip diamond pattern finish, cotton flock lining, 12" rolled cuff

Size S-XL

EN374-3 - ALK Performance Level 116







#### 9999PF 360° Total Coverage

White vinyl, powder-free, 5 mil thickness, rolled cuff, CFIA approved, 100 gloves/dispenser

Size S-XL







# GLOVE SELECTION GUIDE - CHEMICAL RESISTANT (EN374-3)

| LECENID  |                              |                        | LATEX            |                  |                              | PVC             |
|--|------------------------------|------------------------|------------------|------------------|------------------------------|-----------------|
| NOT RECOMMENDED (LEVEL 0)  | 400<br>360 TOTAL<br>COVERAGE | 450B<br>VERSA<br>TOUCH | 454B<br>MARIGOLD | 459B<br>MARIGOLD | 500<br>360 TOTAL<br>COVERAGE | 9341<br>FOAMTAS |
| SPLASH (LEVEL 1-2) GOOD (LEVEL 3-4) EXCELLENT (LEVEL 5-6) EXACT BREAKTHROUGH TIME UNKNOWN (<30 MINS) |                              |                        |                  |                  |                              | PROMITOR TO     |
| COATING  | LATEX                        | LATEX                  | LATEX            | LATEX            | LATEX                        | PVC             |
| THICKNESS (MIL)  | 28 MIL                       | 30 MIL                 | 17 MIL           | 30 MIL           | 28 MIL                       |                 |
| AQL  |                              | <0.65                  | <0.65            | <0.65            |                              |                 |
| EN374-2:2003 (PENETRATION)   | PASS                         |                        |                  |                  | PASS                         |                 |
| EN374-3:2003 (PERMEATION)  | KLAB (PASS)                  | AKL (PASS)             | AKL (PASS)       | AKL (PASS)       | KLAB (PASS)                  | JKL (PASS       |
| PERFORMANCE LEVEL  | 6521                         | 363                    | 262              | 363              | 6521                         | 363             |
| METHANOL (A)   | >30 MINS                     | >60 MINS               | >30 MIN          | >60 MINS         | >30 MINS                     |                 |
| ACETONE (B)  | >10 MINS                     |                        |                  |                  | >10 MINS                     |                 |
| ACETONITRILE (C)   |                              |                        |                  |                  |                              |                 |
| DICHLOROMETHANE (D)  |                              |                        |                  |                  |                              |                 |
| CARBONE DISULPHIDE (E)   |                              |                        |                  |                  |                              |                 |
| TOLUENE (F)  |                              |                        |                  |                  |                              |                 |
| DIETHYLAMINE (G)   |                              |                        |                  |                  |                              |                 |
| TETRAHYDROFURANCE (H)  |                              |                        |                  |                  |                              |                 |
| ETHYL ACETATE (I)  |                              |                        |                  |                  |                              |                 |
| N-HEPTANE (J)  |                              |                        |                  |                  |                              | >60 MI          |
| SODUIM HYDROXIDE 40% (K)   | >480 MINS                    | >480 MINS              | >480 MINS        | >480 MINS        | >480 MINS                    | >480 MI         |
| SULPHURIC ACID 96% (L)   | >240 MINS                    | >60 MINS               | >30 MINS         | >60 MINS         | >240 MINS                    | >60 MI          |
| NITRIC ACID 65% (M)  |                              |                        |                  |                  |                              |                 |
| ACETIC ACID 99% (N)  |                              |                        |                  |                  |                              |                 |
| AMMONIUM HYDRO 30% (O)   |                              |                        |                  |                  |                              |                 |
| HYDROGEN PEROXIDE 30% (P)  |                              |                        |                  |                  |                              |                 |
| HYDROFLURIC ACID 40% (S)   |                              |                        |                  |                  |                              |                 |
| FORMALDEHYDE (T)   |                              |                        |                  |                  |                              |                 |

IN ORDER TO PASS THE EN374-3 TEST AND USE THE CHEMICAL SHIELD, AT LEAST THREE CHEMICALS FROM THE 12 CHEMICAL LIST (STATED IN THE STANDARD) HAVE TO HAVE A BREAKTHROUGH TIME OF AT LEAST 30 MINS (LEVEL 2). IF NOT, IT DOES NOT PASS THE TEST AND IS CONSIDERED "LIMITED CHEMICAL" RESISTANCE (SPLASH/INCIDENTAL SPLASH) IF AQL  $\leq$ 4.

| BREAKTHROUGH TIME | PERFORMANCE LEVEL | BREAKTHROUGH TIME | PERFORMANCE LEVEL |
|-------------------|-------------------|-------------------|-------------------|
| >10 MINS          | LEVEL 1           | >120 MINS         | LEVEL 4           |
| >30 MINS          | LEVEL 2           | >240 MINS         | LEVEL 5           |
| >60 MINS          | LEVEL 3           | >480 MINS         | LEVEL 6           |

|          |                    |                        |                              | NITRILE                     |                            |                            | PVC                |
|----------|--------------------|------------------------|------------------------------|-----------------------------|----------------------------|----------------------------|--------------------|
| С        | WG12/WG14/<br>WG16 | 772<br>SKUM<br>BUSTERS | 316<br>360 TOTAL<br>COVERAGE | 37185<br>ANSELL<br>SOL-VEX® | 5558PF<br>MONKEY<br>WRENCH | 5555PF<br>GREASE<br>MONKEY | 455 TRIPLE<br>SHOT |
|          | WATERN COMPTEN     |                        |                              | * in 10                     |                            |                            | B.Gar.<br>STILET   |
|          | PVC                | NITRILE                | NITRILE                      | NITRILE                     | NITRILE                    | NITRILE                    | PVC                |
|          |                    |                        | 15 MIL                       | 22 MIL                      | 8 MIL                      | 8 MIL                      |                    |
|          |                    |                        |                              |                             | 4                          | 1.5                        |                    |
|          | PASS               | PASS                   |                              |                             | PASS                       | PASS (2016)                |                    |
|          | JKL                | JKL (PASS)             | AJKL (PASS)                  | AFGKL (PASS)                | JKL (PASS)                 | JKOPT (2016)               | JKL                |
|          | 263                | 662                    | 2663                         | 42364                       | 562                        | 46244                      | 264                |
|          |                    |                        | >30 MINS                     | 129 MINS                    |                            |                            |                    |
|          |                    |                        |                              | 10-30 MINS                  |                            |                            |                    |
|          |                    |                        |                              | 20 MINS                     |                            |                            |                    |
|          |                    |                        |                              |                             |                            |                            |                    |
|          |                    |                        |                              | <5 MINS                     |                            |                            |                    |
|          |                    |                        |                              | 54 MINS                     |                            |                            |                    |
|          |                    |                        |                              | 79 MINS                     |                            |                            |                    |
|          |                    |                        |                              | 10-30 MINS                  |                            |                            |                    |
|          |                    |                        |                              | 29 MINS                     |                            |                            |                    |
| <u> </u> | >30 MINS           | >480 MINS              | >480 MINS                    |                             | >240 MINS                  | 136 MIN                    | 44 MINS            |
| S        | >480 MINS          | >480 MINS              | >480 MINS                    | >480 MINS                   | >480 MINS                  | >480 MINS                  | 481 MINS           |
|          | >60 MINS           | >30 MINS               | >60 MINS                     | 127 MINS                    | >30 MINS                   |                            | 143 MINS           |
|          |                    |                        |                              |                             |                            |                            |                    |
|          |                    |                        |                              | 1                           | 1                          |                            |                    |
|          |                    |                        |                              |                             |                            | 42 MINS                    |                    |
|          |                    |                        |                              | 1                           |                            | 181 MINS                   |                    |
|          |                    |                        |                              |                             |                            |                            |                    |

#### WARNING AND DISCLAIMER

WATSON GLOVES HEREBY WARNS ALL POTENTIAL USERS OF ITS CHEMICAL RESISTANT PRODUCTS THAT THEY ARE NOT SUITABLE FOR ALL USES. THESE PRODUCTS HAVE BEEN TESTED IN LAB CONDITIONS ONLY.

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# GLOVE SELECTION GUIDE - SPLASH/INCIDENTAL CONTACT

|   | NITRILE                    |                                 |                                 |                                 |                            |                            |  |
|---|----------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------|----------------------------|--|
| NOT RECOMMENDED (LEVEL 0)   | 5554PF<br>GREASE<br>MONKEY | 4444PF<br>360 TOTAL<br>COVERAGE | 2222PF<br>360 TOTAL<br>COVERAGE | 8888PF<br>360 TOTAL<br>COVERAGE | 5557PF<br>MONKEY<br>WRENCH | 5558PF<br>MONKEY<br>WRENCH |  |
| SPLASH (LEVEL 1-2) GOOD (LEVEL 3-4) EXCELLENT (LEVEL 5-6) BREAKTHROUGH TIME UNKNOWN |                            |                                 |                                 |                                 |                            |                            |  |
| COATING   | NITRILE                    | NITRILE                         | NITRILE                         | NITRILE                         | NITRILE                    | NITRILE                    |  |
| AQL   | 4.0                        | 1.5                             | 1.5                             | 4.0                             | 4.0                        | 4.0                        |  |
| THICKNESS (MIL)   | 5 MIL                      | 5 MIL                           | 3 MIL                           | 5 MIL                           | 6 MIL                      | 8 MIL                      |  |
| EN374-2:2003 (PENETRATION)  |                            |                                 |                                 |                                 | PASS                       | PASS                       |  |
| EN374-3:2003 (PERMEATION)   | **KL (DID<br>NOT PASS)     |                                 |                                 | **KL (DID<br>NOT PASS)          |                            | JKL (PAS                   |  |
| PERFORMANCE LEVEL   | 66                         |                                 |                                 | 66                              |                            | 562                        |  |
| METHANOL (A)  | <1 MIN                     | <1 MIN                          |                                 | <1 MIN                          |                            |                            |  |
| ACETONE (B)   | <1 MIN                     |                                 |                                 | <1 MIN                          |                            |                            |  |
| ACETONITRILE (C)  | <1 MIN                     |                                 |                                 | <1 MIN                          |                            |                            |  |
| DICHLOROMETHANE (D)   |                            |                                 |                                 |                                 |                            |                            |  |
| CARBONE DISULPHIDE (E)  |                            |                                 |                                 |                                 |                            |                            |  |
| TOLUENE (F)   | <1 MIN                     |                                 |                                 | <1 MIN                          |                            |                            |  |
| DIETHYLAMINE (G)  |                            |                                 |                                 |                                 |                            |                            |  |
| TETRAHYDROFURANCE (H)   |                            |                                 |                                 |                                 |                            |                            |  |
| ETHYL ACETATE (I)   |                            |                                 |                                 |                                 |                            |                            |  |
| N-HEPTANE (J)   | <1 MIN                     | >44MINS                         |                                 | <1 MIN                          | 10 MINS                    | >240 MIN                   |  |
| SODUIM HYDROXIDE 40% (K)  | >480 MINS                  | >480 MINS                       | >480 MINS                       | >480 MINS                       | >480 MINS                  | >480 MIN                   |  |
| SULPHURIC ACID 96% (L)  | >480 MINS                  | 8 MINS                          |                                 | >480 MINS                       | 9 MINS                     | >30 MINS                   |  |
| NITRIC ACID 65% (M)   |                            |                                 |                                 |                                 | Ì                          |                            |  |
| ACETIC ACID 99% (N)   |                            |                                 |                                 |                                 |                            |                            |  |
| AMMONIUM HYDRO 30% (O)  |                            |                                 |                                 |                                 |                            |                            |  |
| HYDROGEN PEROXIDE 30% (P)   |                            |                                 |                                 |                                 |                            |                            |  |
| HYDROFLURIC ACID 40% (S)  |                            |                                 |                                 |                                 |                            |                            |  |
| FORMALDEHYDE (T)  |                            |                                 |                                 |                                 |                            |                            |  |
| 35% FORMALDEHYDE  | >480 MINS                  |                                 |                                 |                                 |                            |                            |  |
| 50% GLUTERALDEHYDE  | >240 MINS                  |                                 |                                 |                                 |                            |                            |  |
| 5% ETHIDIUM BROMIDE   | >480 MINS                  |                                 |                                 |                                 |                            |                            |  |
| TRIETHYLAMINE   | <1 MIN                     |                                 |                                 |                                 |                            |                            |  |
| N-HEXANE  | <1 MIN                     |                                 |                                 |                                 |                            |                            |  |

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|                             |                            |  | VINYL                           | LATEX                   |                         |  |
|-----------------------------|----------------------------|--|---------------------------------|-------------------------|-------------------------|--|
| 5558X10<br>MONKEY<br>WRENCH | 5555PF<br>GREASE<br>MONKEY | 37175<br>ANSELL<br>SOL-VEX®            | 9999PF<br>360 TOTAL<br>COVERAGE | 488B<br>MARIGOLD        | 326B<br>MARIGOLD        |  |
|                             |                            | ************************************** |                                 |                         |                         |  |
| NITRILE                     | NITRILE                    | NITRILE                                | VINYL                           | LATEX                   | LATEX                   |  |
| 4.0                         | 1.5                        | 15 MIL                                 | 4.0                             |                         |                         |  |
| 8 MIL                       | 8 MIL                      |  | 5 MIL                           | 18 MIL                  | 21 MIL                  |  |
| PASS                        | PASS (2016)                |  |                                 |                         |                         |  |
| JKL (PASS)                  | JKOPT (2016)               | AKL (DID NOT PASS)                     | **K (DID NOT<br>PASS)           | **ALK (DID<br>NOT PASS) | **ALK (DID<br>NOT PASS) |  |
| 562                         | 46244                      | 163                                    | 6                               | 116                     | 116                     |  |
|                             |                            | 28 MINS                                |                                 | >10 MINS                | >10 MINS                |  |
|                             |                            | <7 MINS                                |                                 |                         |                         |  |
|                             |                            | <11 MINS                               |                                 |                         |                         |  |
|                             |                            |  |                                 |                         |                         |  |
|                             |                            | <12 MINS                               |                                 |                         |                         |  |
|                             |                            | <23 MINS                               |                                 |                         |                         |  |
|                             |                            | <17 MINS                               |                                 |                         |                         |  |
|                             |                            | <6 MINS                                |                                 |                         |                         |  |
|                             |                            | <18 MINS                               |                                 |                         |                         |  |
| >240 MINS                   | 136 MIN                    |  |                                 |                         |                         |  |
| >480 MINS                   | >480 MINS                  | >480 MINS                              | >480 MINS                       | >480 MINS               | >480 MINS               |  |
| >30 MINS                    |                            | 63 MINS                                |                                 | >10 MINS                | >10 MINS                |  |
|                             |                            |  |                                 |                         |                         |  |
|                             |                            |  |                                 |                         |                         |  |
|                             | 42 MINS                    |  |                                 |                         |                         |  |
|                             | 181 MINS                   | ļ                                      |                                 |                         |                         |  |
|                             | 440.540.10                 |  |                                 |                         |                         |  |
|                             | 148 MINS                   |  |                                 | 400 841110              | 400 541110              |  |
|                             | +                          |  |                                 | >480 MIINS              | >480 MINS               |  |
| <u> </u>                    | +                          |  |                                 | <u> </u>                | 1                       |  |
| <u> </u>                    | +                          |  |                                 |                         |                         |  |
|                             |                            | -                                      |                                 | -                       |                         |  |

THESE GLOVES SHOULD BE USED FOR SPLASH/INCIDENTAL CONTACT ONLY! IN ORDER TO PASS THE EN374-3 TEST AND USE THE CHEMICAL SHIELD, AT LEAST THREE CHEMICALS FROM THE 12 CHEMICAL LIST (STATED IN THE STANDARD) HAVE TO HAVE A BREAKTHROUGH TIME OF AT LEAST 30 MINS (LEVEL 2). IF NOT, IT DOES NOT PASS THE TEST AND IS CONSIDERED "LIMITED CHEMICAL" RESISTANCE (SPLASH/INCIDENTAL SPLASH) IF AQL  $\leq$ 4.

|               |  |   | COATING   |  |  |
|---------------|--|---|---|--|--|
|               | NATURAL RUBBER (LATEX)   | NATURAL RUBBER<br>BLENDS  | PVC   | NITRILE  |  |
| INTENDED USE  | INCIDENTAL CONTACT   | INCIDENTAL CONTACT  | SPECIFIC USE  | INCIDENTAL<br>DISPOSABL<br>EXTENDED<br>THICKER RE  |  |
| USE AGAINST   | <ul><li>BASES</li><li>ALCOHOL</li><li>DILUTE SOLUTIONS</li></ul>   | <ul><li>BASES</li><li>ALCOHOL</li><li>DILUTE SOLUTIONS</li></ul>          | <ul> <li>STRONG ACIDS AND BASES</li> <li>SALTS</li> <li>OTHER WATER SOLUTIONS</li> <li>ALCOHOL</li> </ul>   | OILS GREASI ALIPHA XYLENE PERCH TRICHL FAIR VS   |  |
| ADVANTAGES    | <ul> <li>LOW COST</li> <li>GOOD PHYSICAL<br/>PROPERTIES</li> <li>GOOD DEXTERITY</li> <li>GOOD FOR<br/>BIOLOGICAL AND<br/>WATER BASED<br/>MATERIALS</li> </ul>                              | LOW COST GOOD DEXTERITY BETTER CHEMICAL RESISTANCE THAN NATURAL RUBBER    | MEDIUM COST     MEDIUM CHEMICAL     RESISTANCE     GOOD FOR:     ACIDS     BASES     OIL     FATS     PEROXIDES AND AMINES                                      | EXCELL     USE GL     GOOD F     SOLVEN     OILS     GREASI     ACIDS A     CLEAR     TEARS    |  |
| DISADVANTAGES | <ul> <li>POOR VS</li> <li>OILS, GREASES,<br/>ORGANICS</li> <li>LITTLE CHEMICAL<br/>PROTECTION</li> <li>HARD TO DETECT<br/>PUNCTURE HOLES</li> <li>CAN TRIGGER LATEX<br/>ALLERGY</li> </ul> | PHYSICAL     PROPERTIES     FREQUENTLY     INFERIOR TO     NATURAL RUBBER | <ul> <li>POOR FOR MOST<br/>ORGANIC SOLVENTS:</li> <li>ACETONES, KETONES,<br/>ETHERS, AROMATIC<br/>SOLVENTS</li> <li>PLASTICIZERS CAN BE<br/>STRIPPED</li> </ul> | POOR \     METHY     TRICHL     MANY       OXIDOZ     ACETOI      DETERI     WHEN I     KETONI |  |

# CHEMICAL CLASSES

| CLASS                                   | EXAMPLE   |
|---|---|
| ACID                                    | SULPHURIC ACID, ACETIC ACID                     |
| BASE/ALKALI                             | SODIUM HYDROXIDE, AMMONIA                       |
| ALCOHOL                                 | ETHANOL, ISOPROPANOL, METHANOL                  |
| ALDEHYDE                                | FORMALDEHYDE                                    |
| AMINE                                   | DIETHYLAMINE                                    |
| AMIDE                                   | DIMETHYLFORMAMIDE                               |
| ALIFATIC HYDROCARBON/PARAFFIN/OLEFIN    | METHANE, HEPTANE                                |
| AROMATIC HYDROCARBON                    | TOLUENE, BENZENE                                |
| CHLORINATED HYDROCARBON/PARAFFIN/OLEFIN | CHLOROFORM, TETRACHLORETHYLENE, DICHLOROMETHANE |
| ETHER                                   | ETHYLETHER, TETRAHYDROFURAN (THF)               |
| ESTER                                   | ETHYL ACETATE                                   |
| KETONE                                  | METHYLETHYLKETON (MEK), ACETONE                 |
| NITRILE COMPOUND                        | ACETONITRILE                                    |
|   |   |

| TYPES  | NEOPRENE  | BUTYL  | VITON  | NORFOIL  |
|--|---|--|--|--|
| CONTACT -<br>E GLOVES<br>CONTACT -<br>EUSABLE GLOVES   | EXTENDED CONTACT  | EXTENDED CONTACT   | EXTENDED CONTACT   | EXTENDED CONTACT   |
| ES IIC CHEMICALS COROETHYLENE OROETHANE TOLUENE  | <ul> <li>OXIDIZING ACIDS</li> <li>ANILINES</li> <li>PHENOL</li> <li>GLYCOL ETHERS</li> <li>ALCOHOL</li> <li>OILS</li> </ul>   | <ul><li>GLYCOL ETHERS</li><li>KETONES</li><li>ESTERS</li></ul>   | <ul> <li>AROMATICS,</li> <li>CHLORINATED SOLVENTS<br/>(BENZENE, TOLUENE,<br/>XYLENE)</li> <li>ALIPHATICS</li> <li>ALCOHOL</li> </ul> | • USE FOR HAZMAT<br>WORK   |
| ENT GENERAL OVE FOR: ITS ES AND SOME AND BASES INDICATION OF AND BREAKS                      | <ul> <li>MEDIUM COST</li> <li>MEDIUM CHEMICAL RESISTANCE</li> <li>GOOD FOR: ACIDS</li> <li>BASES</li> <li>ALCOHOLS</li> <li>FUELS</li> <li>PEROXIDES</li> <li>HYDROCARBONS</li> <li>PHENOLS</li> <li>GOOD FOR MOST HAZARDOUS CHEMICALS</li> </ul> | <ul><li>GOOD FOR:</li><li>KETONES</li><li>ESTERS</li></ul>   | GOOD FOR: CHLORINATED AND AROMATIC SOLVENTS GOOD RESISTANCE TO CUTS AND ABRASIONS  | GOOD FOR MOST<br>HAZARDOUS<br>CHEMICALS  |
| 'S BENZENE, LENE CHLORIDE, OROETHYLENE, (ETONESSTRONG ING ACIDS, NE ORATE QUICKLY EXPOSED TO | POOR FOR HALOGENATED AND AROMATIC HYDROCARBONS  | EXPENSIVE, POOR FOR GASOLINE AND ALIPHATIC, CHLORINATED SOLVENTS, AROMATIC AND HALOGENTATED HYDROCARBONS | <ul><li>POOR FOR KETONES</li><li>EXPENSIVE</li></ul>   | POOR FIT  DEXTERITY CAN BE PARTIALLY REGAINED BY USING A HEAVIER WEIGHT NITRILE GLOVE OVER THE NORFOIL GLOVE |

# THE CHART ABOVE IS JUST A GUIDELINE. MAKE SURE YOU READ THE MSDS REPORT AND FIGURE OUT THE LENGTH OF TIME YOU WILL BE IN CONTACT WITH THE CHEMICAL.

WARNING AND DISCLAIMER

 $WATSON\ GLOVES\ HEREBY\ WARNS\ ALL\ POTENTIAL\ USERS\ OF\ ITS\ CHEMICAL\ RESISTANT\ PRODUCTS\ THAT\ THEY\ ARE\ NOT\ SUITABLE\ FOR\ ALL\ USES.$ 

THESE PRODUCTS HAVE BEEN TESTED IN LAB CONDITIONS ONLY.

NOTHING IN THE MATERIAL ACCOMPANYING THIS WARNING OR IN ANY OTHER STATEMENT MADE BY OR ON BEHALF OF WATSON GLOVES SHOULD BE CONSTRUED AS A WARRANTY OF THE MERCHANTABILITY OF ANY CHEMICAL RESISTANT WATSON GLOVES PRODUCT OR THAT ANY WATSON GLOVES PRODUCT IS FIT FOR A PARTICULAR PURPOSE. WATSON GLOVES DISCLAIMS ANY RESPONSIBILITY FOR THE SUITABILITY OR ADEQUACY OF ITS PRODUCTS FOR ANY SPECIFIC USE BY AN END USER.



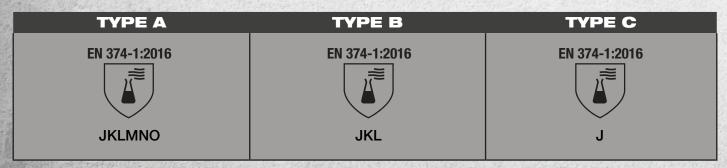
## **CHEMICAL CHANGES**

The ISO 374 Protective gloves against dangerous chemicals and micro-organisms have changed substantially and have now been published under the standard ISO 374-1 and EN374-5. The changes include the following: the number of chemicals being tested will be increased, the beaker icon will no longer be used, the gloves will be given classification (A, B, or C) as well as a degradation test will be conducted. Chemical gloves will undergo the new testing and manufacturers have until 2019 to make the necessary changes on the glove markings.

| NEW  | OLD   |
|--|---|
| EN ISO 374-1:2016  | EN374-1:2003  |
| 18 test chemicals  | 12 test chemicals   |
| Beaker icon isn't used   | Beaker icon "waterproof protective gloves with limited protection against chemical dangers" |
| Gloves are classified as type A, B or C  |   |
| Change of labeling on product: Three pictogram flasks with different number of letters for test chemicals underneath | Pictogram flask only had three chemicals  |
| Degradation test   |   |
| Gloves longer than 400mm will require three test specimens from cuff area tested for permeation                      |   |

#### **PICTOGRAMS**

As previously stated, the beaker icon will no longer be used. Instead there are three flask pictograms as shown below.



TYPE A: Protective glove with permeation resistance of at least 30 minutes each for at least 6 test chemicals

TYPE B: Protective glove with permeation resistance of at least 30 minutes each for at least 3 test chemicals

TYPE C: Protective glove with permeation resistance of at least 10 minutes each for at least 1 test chemicals

# **RESISTANCE TO PERMEATION**

The test chemicals have increased from 12 to 18 chemicals which are code lettered M-T as shown below.

| CODE LETTER | CHEMICAL               | CAS NUMBER | CATEGORY                            |
|-------------|------------------------|------------|-------------------------------------|
| A           | Methanol               | 67-56-1    | Primary alcohol                     |
| В           | Acetone                | 67-64-1    | Ketone                              |
| C           | Acetonitrile           | 75-05-8    | Nitrile Compound                    |
| D           | Dichloromethane        | 75-09-2    | Chlorinated Paraffin                |
| E           | Carbon Disulfide       | 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 & Ethereal             |
| I           | Ethyl Acetate          | 141-78-6   | Ester                               |
| J           | n-Heptane              | 142-85-5   | Saturated hydrocarbon               |
| K           | Sodium hydroxide 40%   | 1310-73-2  | Inorganic base                      |
| L           | Sulfuric Acid 96%      | 7664-93-9  | Inorganic Mineral Acid              |
| М           | Nitric Acid 65%        | 7697-37-2  | Inorganic Mineral Acid              |
| N           | Acetic Acid 99%        | 64-19-7    | Organic Acid                        |
| 0           | Ammonium Hydroxide 25% | 1336-21-6  | Organic base                        |
| P           | Hydrogen Peroxide 30%  | 7722-84-1  | Peroxide                            |
| S           | Hydrofluric Acid 40%   | 7664-39-3  | Inorganic Mineral Acid              |
| Т           | Formaldehyde 37%       | 50-00-0    | Aldehyde                            |

Our glove markings and marketing material for our chemical gloves will be changed throughout the year.

















# Our Story

#### Watson in a Nutshell

With close to a century of experience, Watson Gloves is Canada's single source for hand protection at work, at home, at play. Our team of glove specialists gets tremendous satisfaction from working with our customers to find the perfect hand protection for just about any task imaginable. Whether we source our gloves from the world's finest manufacturers, or hand-craft them in our local factory, every pair of gloves we sell has been selected for top-of-the-line materials, design and craftsmanship. Try on a pair of Watson gloves. Your hands will thank you!

#### 2 Man Show to International Operation

In April 1918, John Watson and Wayne Stanley started a small business selling hand-crafted gloves to Vancouver's dock workers. Today, almost 100 years later, Watson Gloves has grown across Canada. We are among the country's leaders of distributing hand protection; offering the widest range of quality gloves for work, home and play.

How did we get here? We have stayed true to our founders' belief that quality materials and above-and-beyond customer service go hand-in-glove. We still make gloves. In fact, our artisans – with an average 20 years' experience – put the same level of dedication and craftsmanship into every pair of gloves we make, as did our founders.

Perhaps more importantly, we have expanded our horizons to keep up with our customers' changing needs. Our talented buyers travel the world over in search of the most innovative materials and designs so that we can offer the best gloves for any task: at work, at home, at play. From bustling cities to remote corners of our country and countries across the Atlantic, our team of sales reps and efficient distribution system make it easy to protect the hands of our customers.

At Watson Gloves, we do one thing, and we do it extremely well: we are the glove experts. Mr. Watson and Mr. Stanley would be proud to know that, even as we continue to grow, we continue to earn our reputation as Canada's single source for hand protection.

#### Our Commitment

At Watson Gloves, quality materials and above-and-beyond customer service go hand-in-glove. You can count on Watson for:

*Quality* Every pair of gloves we sell has been hand-selected for top-of-the-line materials, design, and craftsmanship.

Service with a Smile Our experienced team of specialists is committed to our customers' complete satisfaction with each and every pair of Watson gloves purchased.

*Innovation* We commit to staying one step ahead of our customers; anticipating their needs and bringing the most advanced gloves for just about any job imaginable.



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