EN ISO 374

EN REGULATIONS FOR DANGEROUS CHEMICALS AND MICRO-ORGANISMS ARE CHANGING. LET ANSELL BE YOUR GUIDE.

The new EN 374 chemical and micro-organism protection guidelines have updated directives that were over 10 years old. Ansell is developing a series of materials to help explain what elements in the standard have changed, why it matters, and what compliance will require.

To begin receiving new EN 374 support materials please send an email to info.europe@ansell.com
The new EN ISO 374 standard refines the required capabilities for gloves that protect workers whose hands are subject to chemical and/or micro-organism exposure. This summary highlights changes to the EN 374 standard. The requirements are described in more detail in the Ansell EN Guide available at: www.ansell.com/enresourcecenter

NEW NOMENCLATURE

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<td>Gloves giving protection from chemicals and micro-organisms.</td>
<td>Gloves giving protection from dangerous chemicals and micro-organisms.</td>
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NEW STANDARDS AGREEMENT

<table>
<thead>
<tr>
<th>old EN</th>
<th>new EN ISO</th>
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<tr>
<td>Created by the European Committee for Standardization (CEN), applicable in Europe and selective affiliate countries (e.g., Australia).</td>
<td>Created cooperatively by ISO or CEN under the Vienna agreement; applicable in Europe and all countries that accept ISO; the defacto standard when Europe adopts it as an ISO standard.</td>
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NEW TESTS

**Scoring:** 3 specimens taken from the palm are tested for breakthrough times and the lowest is the result.

**Cuffs:** Gloves with long cuffs greater or equal to 400mm are also to be tested with samples taken at 80mm from end of cuff.

**Chemicals Tested:** The chemical permeation table now includes 6 new categories labeled M through T.

- **M** Nitric acid 65% 7697-37-2 Inorganic mineral acid, oxidizing
- **N** Acetic acid 99% 64-19-7 Organic acid
- **O** Ammonia 25% 1336-21-6 Mineral base
- **P** Hydrogen peroxide 30% 7722-84-1 Peroxide
- **S** Hydrofluoric acid 40% 7664-39-3 Inorganic mineral acid
- **T** Formaldehyde 37% 50-00-0 Aldehyde

**old**

**DEGRADATION**

No standard in place.

**new**

**EN ISO 374-5:2016 + ISO16604 / Method B:** Protection against bacteria, fungi and virus is now supported with a new pictogram.

**old**

**EN ISO 374-1:2003**

Micro-organism requirements previously defined under the EN 374-1 standard.

**new**

**EN ISO 374-5:2016**

Protection against bacteria and fungi.
Changes at a Glance

NEW MARKS & REQUIREMENTS

Dangerous Chemical Pictograms

Gloves can only claim protection against Chemical Risks when:
- Type C, B or A performance is achieved using the permeation test method EN 16523-1:2015 (summarized here)

- The glove is leakage proof following testing using the EN 374-2:2014 method
- Degradation performance for claimed chemicals is available through the information supplied by a manufacturer

The beaker icon (low chemical resistance / waterproof) has been eliminated.

Micro-organism Pictograms

The pictogram on the left previously related to bacteria and fungi. The new standard calls for a new viral penetration test. If a glove passes this extra test, the word, “Virus” will be added under the Micro-organism pictogram.

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