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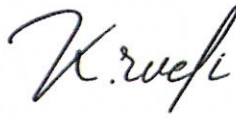
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Applicant: EN ECZA DEPOSU İLAÇ MEDİKAL ÖZEL SAĞLIK HİZMETLERİ İNŞ. TAAH. TİC. A.Ş
Saray Mah. Gıdacılar Cad. No:18 Kahramankazan / ANKARA - Turkey
Contact Person: Mine SEVİMLİ
Telephone: 0312 577 2119
Contact e-mail: minesevimli@enmedglobal.com
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	TEST	METHOD	SPECIMEN	RESULT
*	Determination of material resistance to permeation by chemicals	BS EN 16523-1:2015	Nitrile Glove	PASS



Seal



Customer Representative
Merve Nur KIRVELİ



Laboratory Manager
Merve ÖZLÜ

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Environment

The requirements and standards apply to equipment intended for use in

X	Residential (domestic) environment
X	Commercial and light-industrial environment
X	Industrial environment
X	Medical environment

BS EN 16523-1:2015

Determination of material resistance to permeation by chemicals

Scope

This European Standard specifies a test method for the determination of the resistance of protective clothing, gloves and footwear materials to permeation by potential hazardous liquid chemicals under the condition of continuous contact.

Test procedure

The standard test temperature shall be (23 ± 1) °C. The permeation cells, challenge chemical and the liquid collecting medium shall be at (23 ± 1) °C.

- start the clock;
- pour quickly the challenge chemical into the part B of the permeation cell;
- ensure that the entire sample is in contact with the chemical (i.e. bubbles shall be removed);
- the compartment containing the challenge chemical shall be completely filled during the period of the test.

The concentration of the chemical test in the collecting medium is measured periodically or continuously. If the challenge chemical is an aqueous solution, the permeation of water is not assessed. For periodical measurement, the number of measurements shall be sufficient to define the breakthrough time.

The frequency of analysis of the collecting medium immediately before the time at which the NPR is measured shall be as listed in Table 1.

Final result Minimum rate of sampling	Final result Minimum rate of sampling
≤ 10 min Every 75 s	≤ 10 min Every 75 s
> 10 min but ≤ 30 min Every 150 s	> 10 min but ≤ 30 min Every 150 s
> 30 min but ≤ 60 min Every 150 s	> 30 min but ≤ 60 min Every 150 s
> 60 min but ≤ 120 min Every 6 min	> 60 min but ≤ 120 min Every 6 min
> 120 min but ≤ 240 min Every 6 min	> 120 min but ≤ 240 min Every 6 min
> 240 min but ≤ 480 min Every 11 min	> 240 min but ≤ 480 min Every 11 min
> 480 min At least one measurement after 8 h	> 480 min At least one measurement after 8 h

Table 1 — Minimum sampling rates for collection medium

The sample shall be conditioned for 24 h at a temperature of (23±2) °C and The standard test temperature shall be (23±1) °C.

Permeation Performance Level	Measured Breakthrough Time (min.)
1	>10
2	>30
3	>60
4	>120
5	>240
6	>480

TEST RESULT

#	CHEMICAL	CAS REGISTRY NO.	PERMEATION PERFORMANCE LEVEL	BREAKTHROUGH TIME
1	Acetic Asid 10 %	64-19-7	Level 2	> 30 min
2	Acetone	67-64-1	Level 6	> 480 min
3	Acetonitrile	75-05-8	Level 6	> 480 min
4	Acrylamide 40 %	79-06-1	Level 6	> 480 min
5	Ammonium hydroxide 25 %	1336-21-6	Level 2	> 30 min
6	Benzalconiumchloride liquid	63449-41-2	Level 6	> 480 min
7	Chloroform	67-66-3	Level 6	> 480 min
8	Dichlormethane	75-09-2	Level 6	> 480 min
9	Diethylamine	109-89-7	Level 6	> 480 min
10	Diethyl ether	60-29-7	Level 6	> 480 min
11	Dimethylsulfoxide	67-68-5	Level 2	> 30 min
12	Ethanol 20 %	64-17-5	Level 6	> 480 min
13	Ethidium bromide 1 %	1239-45-8	Level 6	> 480 min
14	Formaldehyde 37 %	50-00-0	Level 4	> 120 min
16	Gasoline	8032-32-4	Level 6	> 480 min
16	Glutaraldehyde 5 %	111-30-8	Level 6	> 480 min
17	Hydrochloric acid 10 %	7647-01-0	Level 6	> 480 min
18	Hydrogen Peroxide 30 %	7722-84-1	Level 6	> 480 min
19	Isoprophil alcohol 40 %	67-63-0	Level 6	> 480 min
20	Isoprophil alcohol 70 %	67-63-0	Level 6	> 480 min
21	Nitric asid 10 %	7697-37-2	Level 6	> 480 min
22	Phenol 10 %	108-95-2	Level 6	> 480 min
23	Sodium hydroxide 40 %	1310-73-2	Level 6	> 480 min
24	Sulfuric asid 96 %	7664-93-9	Level 2	> 30 min
25	Toluene	108-88-3	Level 6	> 480 min
26	Trichloroethane	71-55-6	Level 6	> 480 min
27	Xylene	95-47-6	Level 6	> 480 min

SAMPLE IMAGE



*****End Of Report*****