

Standard:

ISO 26987:2012 Staining and resistance to chemicals

(EN 423)

Key

0	Not affected
1	Slight
2	Moderate
3	Severe

Acids				
<i>Product name</i>	<i>Conc.</i>	<i>Time</i>	<i>Results after cleaning with dry paper</i>	<i>Results after cleaning with neuter detergent</i>
Acetic acid	50%	5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
Nitric acid	30%	5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	2 - Moderate	2 - Moderate
		24 h	3 - Severe	3 - Severe
Citric Acid	50%	5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	3 - Severe	3 - Severe
Hydrochloric acid HCl	37%	5 min	0 - Not affected	0 - Not affected
		30 min	2 - Moderate	2 - Moderate
		2 h	3 - Severe	3 - Severe
		24 h	3 - Severe	3 - Severe
Sulfuric acid H ₂ SO ₄	30%	5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	2 - Moderate (white stain)	2 - Moderate (white stain)
Organic solvents				
<i>Product name</i>	<i>Conc.</i>	<i>Time</i>	<i>Results after cleaning with dry paper</i>	<i>Results after cleaning with neuter detergent</i>
Acetone		5 min	0 - Not affected	0 - Not affected
		30 min	2 - Moderate	2 - Moderate
		2 h	3 - Severe	3 - Severe
		24 h	3 - Severe	3 - Severe
Carbon tetrachloride		5 min	0 - Not affected	0 - Not affected
		30 min	2 - Moderate	2 - Moderate
		2 h	2 - Moderate	2 - Moderate
		24 h	2 - Moderate	2 - Moderate
Toluene		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
Chloroform		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
Organic solvents				
Cyclohexane		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h 1/3	2 - Moderate	2 - Moderate

		24 h	3 - Severe	3 - Severe
Ethanol		5 min	0 - Not affected	0 - Not affected
		30 min	2 - Moderate	2 - Moderate
		2 h	2 - Moderate	2 - Moderate
		24 h	2 - Moderate	2 - Moderate
Diethyl ether		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
n-Hexane		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
Alkali (bases)				
<i>Product name</i>	<i>Conc.</i>	<i>Time</i>	<i>Results after cleaning with dry paper</i>	<i>Results after cleaning with neuter detergent</i>
Ammonia solution	25% (pH=12)	5 min	3 - Severe	3 - Severe
		30 min	3 - Severe	3 - Severe
		2 h	3 - Severe	3 - Severe
		24 h	3 - Severe	3 - Severe
Potassium hydroxide	0,1% (pH=13,5)	5 min	0 - Not affected	0 - Not affected
		30 min	3 - Severe	3 - Severe
		2 h	3 - Severe	3 - Severe
		24 h	3 - Severe	3 - Severe
Alkali (bases)				
Sodium hydroxide NaOH	10%	5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	2 -Moderate	2 -Moderate
		24 h	2 -Moderate	2 -Moderate
Salt solutions				
<i>Product name</i>	<i>Conc.</i>	<i>Time</i>	<i>Results after cleaning with dry paper</i>	<i>Results after cleaning with neuter detergent</i>
Sodium carbonate	20%	5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
Ammonium carbonate	10%	5 min	0 - Not affected	0 - Not affected
		30 min	2 -Moderate (yellow stain)	2 -Moderate (yellow stain)
		2 h	2 -Moderate (yellow stain)	2 -Moderate (yellow stain)
		24 h	2 -Moderate (yellow stain)	2 -Moderate (yellow stain)
Ammonium iron (III)sulphate	10%	5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	2 -Moderate (yellow stain)	0 - Not affected
Medical chemicals				
<i>Product name</i>	<i>Conc.</i>	<i>Time</i>	<i>Results after cleaning with dry paper</i>	<i>Results after cleaning with neuter detergent</i>
Betadine		5 min	2 -Moderate (yellow stain)	2 -Moderate (yellow stain)
		30 min	2 -Moderate (yellow stain)	2 -Moderate (yellow stain)
		2 h	2 -Moderate (yellow stain)	2 -Moderate (yellow stain)
		24 h	3 - Severe	3 - Severe
Aniline blue	2,5% in ethanol	5 min	3 - Severe (blue stain)	3 - Severe (blue stain)
		30 min	3 - Severe (blue stain)	3 - Severe (blue stain)
		2 h	3 - Severe (blue stain)	3 - Severe (blue stain)
		24 h	3 - Severe (blue stain)	3 - Severe (blue stain)
Amuchina		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
Hematoxylin	5%	5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
		5 min 2/3	3 - Severe	3 - Severe

Iodine	2% in ethanol	30 min	3 - Severe	3 - Severe
		2 h	3 - Severe	3 - Severe
		24 h	3 - Severe	3 - Severe
Hydrogen Peroxide H ₂ O ₂	30%	5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
Paracetic acide C ₂ H ₄ O ₃	15%	5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
Miscellaneous chemicals				
<i>Product name</i>	<i>Conc.</i>	<i>Time</i>	<i>Results after cleaning with dry paper</i>	<i>Results after cleaning with neuter detergent</i>
Hydrogen peroxide	30%	5 min	0 - Not affected	0 - Not affected
		30 min	2 - Moderate	2 - Moderate
		2 h	3 - Severe	3 - Severe
		24 h	3 - Severe	3 - Severe
Olive oil		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
Miscellaneous chemicals				
Tea		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	2 - Moderate
		24 h	3 - Severe (brown stain)	3 - Severe (brown stain)
Coke		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	1 - Sligth	1 - Sligth
Wine (red)		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected
Tomatoe Sauce		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	2 -Moderate	2 -Moderate
		24 h	2 -Moderate	2 -Moderate
Miscellaneous chemicals				
Beer		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	3 - Severe (yellow stain)	0 - Not affected
Apple juice		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	3 - Severe (yellow stain)	3 - Severe (yellow stain)
		24 h	3 - Severe (yellow stain)	3 - Severe (yellow stain)
Urine		5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	3 - Severe (yellow stain)	3 - Severe (yellow stain)
Barium hydroxide	5% solution in water	5 min	0 - Not affected	0 - Not affected
		30 min	0 - Not affected	0 - Not affected
		2 h	0 - Not affected	0 - Not affected
		24 h	0 - Not affected	0 - Not affected