

Material Resistance Reflectors **Inox**Sens



Introduction

Testing for chemical stressing of the materials under examination was conducted on a laboratory scale. The test results reveal that the material under examination is resistant to a broad range of chemical substances. This material resistance table is only valid for materials which have the same composition as the submitted test material.

Explanation of utilized symbols:

- + Suitable
- o Conditionally suitable
- Not suitable
- * Contains nitric acid
- 0 No change
- 1 Minimal change (description required)
- 2 Significant change (description required)
- a) Lysoformin® 3000 (ingredients: glyoxal, glutaral, didecyldimethylammonium chloride)
- b) Bio Tec Spüli (ingredients: alkyl benzene sulfonate, alkyl ether sulfate)

ECOLAB Cleaning Agent – Resistance of InoxSens Reflectors

Execution:

- InoxSens reflectors are laid into various cleaning solutions and cleaning concentrates.
- Temperature: 60°C or 80°C (same suitability 20 °C)
- Duration: 2 weeks
- The reflectors are rinsed with deionized water after two weeks, and are optically and gravimetrically evaluated.

Product / Concentration	T [°C]	Suitability
P3-cosa CIP 72	60	+
P3-cosa CIP 77	80	+
P3-cosa CIP 90	80	+
P3-cosa CIP 92	80	+
P3-cosa CIP 95	80	+
P3-cosa PUR 80	80	+
P3-cosa PUR 83	80	+
P3-cosa PUR 84	80	+
P3-cosa PUR 85	80	+
P3-cosa PUR 88	80	+
P3-cosa FOAM 40	80	+
P3-cosa DES	60	+
P3-cosa FLUX 22	80	+
P3-cosa FLUX 33	80	+
P3-cosa FLUX 44	80	+
P3-cosa FLUX 55*	80	0
+ = Suitable		
o = Conditionally suitable		
- = Not suitable		

* = Contains nitric acid



InoxSens Reflectors – Evaluation by TÜV Rhineland

Tested Liquid	Group /	Evaluation after (condition, color)		
	Ingredients	1 day	7 days	14 days
Acetaldehyde	Aldehydes	0	0	0
Acetone	Ketones	1 (softening of the surface)	1 (softening of the surface)	1 (softening of the surface)
Formic acid	Organic acids	0	0	0
Benzene	Aromatic hydrocarbons	0	0	1 (opacity)
1,3 butane dioles	Polyalcohols	0	0	0
Butylamine	Amines	0	0	0
Chlorobenzene	Chlorinated aromatic hydrocarbons	0	0	0
Choroform	Chlorinated hydrocarbons	0	0	0
Chlorosulfuric acid	Acid chlorides	0	0	0
Diesel fuel	Fuels	0	0	0
Diethyl ether	Ethers	0	0	0
Dimethyl formamide	Amides	0	0	0
Dimethyl sulfate	Esters	0	0	0
Glacial acetic acid	Organic acids	0	0	1 (minimal cracks)
Acetic acid, 10%	Organic acids	0	0	0
Ethanol	Alcohols	0	0	1 (minimal color change)
Ethylene glycol	Polyalcohols	0	0	0
Formaldehyde, 37%	Aldehydes	0	0	0
Fuel oil EL	Fuels	0	0	0
Isopropanol	Alcohols	0	0	0
Kerosene	Fuels	0	0	0
m-Cresol	Phenols	0	0	0
Methanol	Alcohols	0	0	1 (opacity)
n-Heptane	Hydrocarbons	0	0	0
Sodium hydroxide solution, 10%	Lyes	0	0	0
Hydrochloric acid, 20%	Inorganic acids	0	0	0
Sulfuric acid, 98%	Inorganic acids	0	0	0
1,1,2,2 Tetrachlorethane	Chloridized hydrocarbons	0	0	0
Carbon tetrachloride	Chloridized hydrocarbons	0	0	0
Toluol	Aromatic hydrocarbons	0	0	0
Hydrogen peroxide (H,O,), 10%		0	0	0
Cleaning agent, medical		0	0	0
Cleaning agent, food ^b)		0	0	0
0 = No change 1 = Minimal change (description requ	uired)	a = Lysoformin® 3000 (ingredier b = Bio Tec Spüli (ingredients: a	nts: glyoxal, glutaral, didecyldime Ikyl benzene sulfonate, alkyl eth	thylammonium chloride) er sulfate)
2 = Significant change (description re	equired)	<u> </u>		
Measured values v	vere taken from the	e test report issued by `	IUV Rhineland (test n	o. 620/ 434628).