



**Ecolab GmbH  
Kriegackerstrasse 91  
CH-4132 Muttenz**

certify herewith that for

**Pilz GmbH & Co. KG  
Felix-Wankel-Str. 2  
73760 Ostfildern  
Deutschland**

### **Material compatibility tests**

with the cleaning and disinfecting agents P3-topax 19, P3-topax 56, P3-topax 66, P3-topax 91, P3-steril as well as demineralised water as blank was carried out.

Under the overleaf listed use conditions, the material compatibility of the tested PSENmag M12 production run with fixed cable connexion is compared to those in the tests used P3-products is positive.

Muttenz, May 16<sup>th</sup> 2007

**Ecolab GmbH**

i.V.

A handwritten signature in black ink, appearing to read "S. Nobel".

Stefan Nobel  
Customer Service Manager

i.V.

A handwritten signature in black ink, appearing to read "N. Strübin".

Nicolas Strübin  
Marketing Support

## This certificate is based on

- documented test procedures (Test method: F&E / P3-E No. 40-1) for material compatibility
- defined product specifications
- a standardised cleaning recommendation

### Test Procedure

#### Ecolab-Test method F&E No. ....:

#### Stand- and Dipping-Test

- Complete dipping into test solution

#### Testperiod:

- 28 days

#### Temperatur:

- Room temperatur

#### Analysis:

- Gravimetric at 1/10000g; calculated as material removal (mass difference in %)
- Visual evaluation as swelling, embrittlement, colour change
- Comparison with blank (demineralised water)
- Testreport for ELESTA relays GmbH dated 20.12.2005

### Product Specifications:

#### P3-topax 19:

Highly alkaline cleaning agent for foam cleaning in the food industry

#### P3-topax 56:

Acidic cleaning agent for foam cleaning in the food industry

#### P3-topax 66:

Alkaline cleaning and disinfecting agent for foam cleaning in the food industry.

#### P3-topax 91:

Neutral disinfectant for the food industry

#### P3-steril:

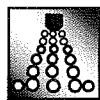
Mild alkaline cleaning and disinfecting agent for manual applications (max. use concentration 3 %)

## Cleaning Recommendation for the Food Industry\*



#### Pre-rinsing with water of 40 - 50°C

Rinse with low pressure from top to bottom in direction to drainage pit.  
Cleaning of the drainage pits.



#### Foam from bottom to top

Alkaline:	P3-topax 19	2 - 5 %
Acidic:	P3-topax 56	2 - 5 %
Alkaline & Disinfection:	P3-topax 66	2 - 5 %
Disinfection:	P3-topax 91	1 - 2 %
Temperature:	cold - 40°C	



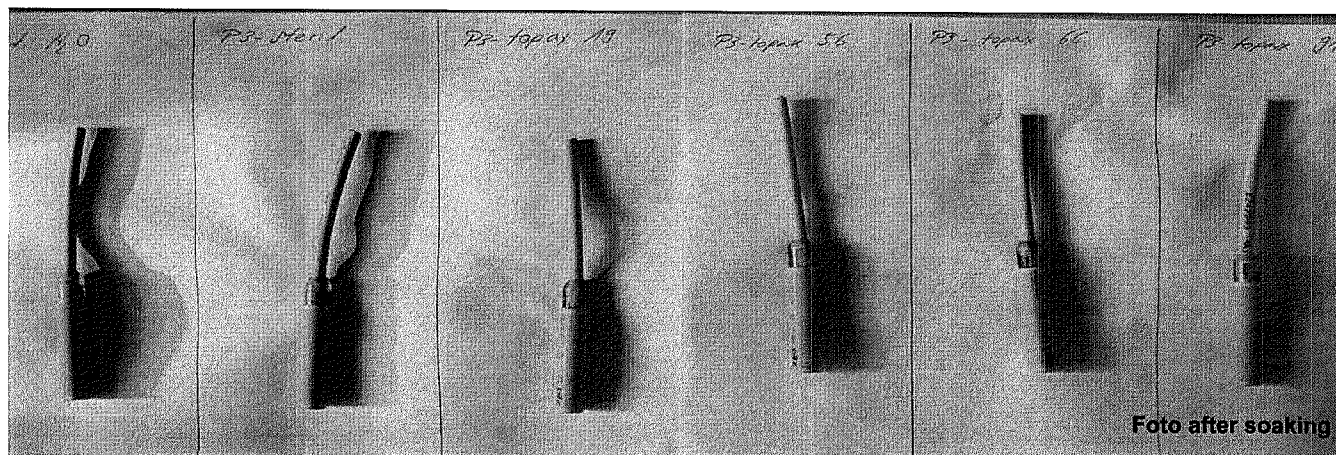
#### Contact time

A contact time of approx. 15 min. is recommended.

#### Final rinse with potable water of 40 - 50°C

Rinse with low pressure from top to bottom

Material compatability  
**ELESTA relays GmbH**



**Testmatrix** : PSEnmag M12  
**Duration** : 28 days  
**Test product:** : different Ecolab cleaning and disinfecting agents  
**Test method** : Ecolab R&D-P3-E No.40-2  
**Temperature** : ambient (20°C)  
**Method of contact** : a. (complete soak)

No.	product	Tes conditions								evaluation
		H2O CaO	conc. %	temp.	time	weight before	weight after	diff.	diff.	
				°C	days	g	g	g	% (total)	
1	demi. Water*	0	100	20	28	10,0417	10,1068	0,0651	0,65	N S
2	P3-steril	0	3	20	28	10,2021	10,3240	0,1219	1,19	N S
3	P3-topax 19	0	5	20	28	9,7905	9,9635	0,1730	1,77	N S
4	P3-topax 56	0	5	20	28	10,0855	10,1557	0,0902	0,90	N S
5	P3-topax 66*	0	5	20	28	9,6167	9,6787	0,0620	0,64	N S
6	P3-topax 91	0	5	20	28	10,3758	10,5021	0,1263	1,22	N S

All solutions in demineralized water (500 ml).

\*Refresh of solution every 7 days.

Final rinse : 3x dipped in demineralised water  
dried on air for 48h

S: suitable

LS: limited suitability

NS: not suitable

N: Not attacked, no defects

C: Colour changes

Sw: Swollen

O: Other surface defects

**Summary:**

The materials are suitable for the tested cleaning solutions. Functionality was not tested