



**Ecolab GmbH & Co. OHG**  
**P.O. Box 13 04 06**  
**D-40551 Düsseldorf**

certifies that for

**Leuze electronic GmbH & Co. KG**  
**P.O. 1111**  
**D-73277 Owen-Teck**

**material resistance tests**

were performed with cleaning substances **P3-topactive 200**, **P3-topax 19**, **P3-topax 56**, **P3-topax 91** and demineralized water as a zero reference factor.

The material resistance of the tested optical sensors

**Series 55**

to the P3 products used in the test can be considered to be positive according to the cleaning procedure mentioned overleaf.

Düsseldorf, 12th December 2006

**Ecolab GmbH & Co. OHG**

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## This certificate is based on:

- documented test procedures (test no.: F&E/P3-E Nr. 40-1) according to material resistance
- defined product descriptions
- standardized cleaning procedure

### Test procedure Ecolab-test F&E Nr. 40-1

#### Dipping test:

- Complete immersion in solutions/liquid

#### Test period:

- 28 days

#### Temperature:

- room temperature (constant)

#### Analysis:

- Visual judgement like swelling, brittleness, discoloring
- compared to zero-reference factor (demineralized water)
- Photo documentation

### Product specifications :

#### P3-topactive 200:

Alkaline foam cleaner for TFC procedures in the food and beverage industries

#### P3-topax 19:

Alkaline foam cleaning detergent for the food and beverage industries

#### P3-topax 56:

Acid foam cleaning detergent for the food and beverage industries

#### P3-topax 91:

Neutral disinfection agent based on Quarternary Ammonium Compounds (QAV) for the food industry

## Cleaning plan for food and beverage industry\*



### Rinsing with water 40 – 50°C

Rinsing with low pressure. Rinsing from top to bottom in the direction of the drains. Cleaning of the drains.



### Foaming from bottom to top

alkaline: P3-topax 19 2 – 5 % daily  
acid: P3-topax 56 2 % on demand  
temperature: cold up to 40°C  
contact time: 15 min. recommended



### Rinsing with water 40 – 50°C

Rinsing from top to bottom with low pressure

**Spray disinfection P3-topax 91 1-2 %, 30 -60 minutes**

\*short description