



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

i.V.


Thomas Tyborski

i. V.


Reimund Laaff



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