ECOLAB

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 cable with M8- or M12-connector Series K-D M.....-FAB

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

Düsseldorf, 06th August 2007

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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