

Certified
ISO 9001-2000 & ISO 14001-1996
OHSAS 18001-1999
from: Lloyd's Register Quality Assurance

# SENSORS COMPATIBILITY between JohnsonDiversey products and Food&Beverage processing series

#### Introduction

Sensors specific to food and beverage processing industries have been sampled to be tested from the point of view of the compatibility with JohnsonDiversey's detergents and disinfectants. Sensors have been identified as follows:

- IMF12
- IMF18
- V18V

The picture shows examples of sensors.



## Test protocol and procedure

Procedure full immersion of the sensors in the various diluted detergents

and disinfectants

Time of contact 25 days

Temperature cold and hot temperature according to the sequence:

20 hours at +5°C

□ 4 hours at room temperature (+20°C)

□ 20 hours at +40°C

4 hours at room temperature (+20°C)

Products OXOFOAM alkaline moderately chlorinated

HYPOFOAM alkaline strongly chlorinated

UNIFOAM strongly alkaline ENDURO CID gel descaling acid ACIFOAM foam descaling acid

DELLADET neutral detergent disinfectant

VIRAGRI PLUS neutral disinfectant with glutaraldehyde

Tested concentration 4%

### Equivalences

the chemical category of some products is comparable with other ones (same components at different concentration). Their behaviour in contact with sensors is similar and the compatibility is equivalent. Hence, the use of equivalent products gives the same compatibility. The equivalent products are listed below:

HYPOFOAM <> ENDURO PLUS
UNIFOAM <> ENDURO FORCE
ENDURO CID <> ENDURO ECO <> ACIFOAM
VIRAGRI PLUS <> TEGODOR <> DIVOSAN 2000
DELLADET <> SEPTINEIGE PLUS

#### **Result and Certification**

The microscopy analysis does not reveal chemical and physical modification to the sensors in their different components such as to be ascribed to a chemical attack of the tested products.

Products containing chlorine show a light fading of the orange colour on the plastic material. By considering the strong oxidizing power (decolouring) typical of chlorine, the behaviour of the chlorinated detergents is quite normal and has no influence on the efficiency of the sensors.

In presence of sensors such as those sampled, the JohnsonDiversey's tested products can be used for cleaning and disinfecting in food&beverage processing industries when applied according to the recommended concentration and temperature.

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> Bagnolo Cremasco Gennaio 07, 2008