

An e-nose for higher quality beverage closures



CSI Germany produces aluminum closures, 28 mm aluminum closures and 30 mm "Long Cap" Wine closures. Per year, CSI Germany produces about 3 billion aluminum closures, with about 200 employees.

Improved screening of polymer raw materials with HERACLES electronic nose

Bastian Seibert, from CSI laboratory, explains: "The aluminum closures are manufactured here at our plant, from aluminum sheet to a finished closure. Aluminum sheets are printed and lacquered, depending on customer wishes. The closures are formed out of these sheets and as a last step, the sealing liner gets inserted. The sealing liner is delivered to our plant as a raw granulate. It gets molded by extrusion and inserted to the closure body. The adhesion is given by a special adhesion inside lacquer.

As the sealing liner is in direct contact with the product/filling goods of our customers, and the products are also mineral waters in many cases, the liner material needs to be from a high quality (no

"With HERACLES E-Nose we definitely achieved a higher quality level and thus have the opportunity to distinguish ourselves from competitors."

incoming goods (liner material, sealing discs for Long Cap closures,

CSI (Closure Systems International) is the world leading supplier for all kind of screw-caps/closures (plastic/aluminum) for the beverage industry (soft drinks/mineral water/wine/beer/etc).

CSI Germany produces aluminum closures, 28 mm aluminum closures and 30

Closure Systems International (CSI)



Activity

Supplier of screw-caps/closures (plastic/aluminum) for the beverage industry

Context

Quality control of liner materials to check they will have no sensory influence on the beverage

Equipment

HERACLES Electronic Nose

User contact

Bastian Seibert

CSI Deutschland GmbH

Mainzer Straße 185

67547 Worms

Phone: +49(0)6241-4001-0

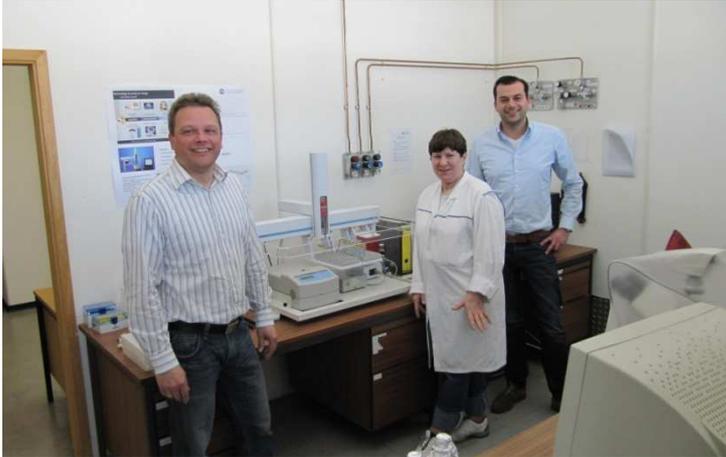
Fax: +49(0)6241-4001-87

Website

[http:// www.csiclosures.com](http://www.csiclosures.com)

etc.), and for development and qualification of new materials (liner materials, lacquers (lacquered sheets), etc.)

With HERACLES E-Nose we definitely achieved a higher quality level and thus have the opportunity to distinguish ourselves from competitors.”



CSI Deutschland GmbH laboratory equipped with HERACLES electronic nose and, from left to right: Jürgen Faltermann, Karin Safika, Bastian Seibert