

# **ORSING**

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## **BIO LINE**

Products in bio-based fossil-free Green PE  
For a sustainable future



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## **The future of your Dental Practice**

J. H. Orsing AB, as a manufacturer of dental supplies makes a huge difference when it comes to global warming by reducing greenhouse gases. As a leading manufacturer of saliva ejectors and aspirator tubes, we are widening our Bio line with products in bio-based fossil-free Green PE for a sustainable future.

### **Important**

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- Green PE is a bio-based fossil-free polyethylene produced from sugarcane.
- Green PE reduce CO2 emission with >5kg CO2/kg plastic, compared to conventional PE.
- Sugarcane is renewable up to eight harvests. Low need for machines, in between harvests.
- Photosynthesis. The large green leaves absorb a huge amount of CO2 while growing.
- Sugarcane is grown where rainforests and agriculture do not thrive or fit.
- The additional cost per patient and your investment for a sustainable future is very low.

**Together for a sustainable future!**



## Hygoformic® Bio

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Hygoformic, the original saliva ejector with tongue holder used by dentists all over the world since the 50's. Made of fossil-free Green PE. Single use.

- Environmentally improved
- Adjustable, to fit all
- Tongue holder
- Handsfree
- Adult and child size

## Hygoformic® Bio Adaptor

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The environmentally improved version of the traditional Hygoformic soft adaptor. Partly made of fossil-free Green PE. Single use.





## Scantube® Bio

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Scantube Bio aspirator tube with double 45° tips. Fit 11 mm evacuation system. Length 135 mm. Made of fossil-free Green PE. Single use.

- Environmentally improved
- Dual tips, 45° + 45°

## Scantube® Vent Bio

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Scantube Vent Bio aspirator tube with double S-shape tips and a rectangular ventilation hole. Fit 11 mm evacuation system. Length 145 mm. Made of fossil-free Green PE. Single use.

- Environmentally improved
- Dual tips, S-shape + S-shape
- Ventilated, to avoid getting stuck





## Hygovac® Bio

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Hygovac Bio aspirator tube with dual tips, S-shaped and 45°. Fit 11 mm evacuation system. Available in two lengths 95 mm and 120 mm which widens the field of application. Made of fossil-free Green PE. Single use.

- Environmentally improved
- Dual tips, 45° and S-shaped
- 95 mm, when working without assistance

## Hygovac® Vent Bio

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Hygovac Vent Bio aspirator tube with dual tips, S-shaped and 45°. Ventilated at both ends to make it more pleasant for the patient. Fit 11 mm evacuation system. Length 140 mm. Made of fossil-free Green PE. Single use.

- Environmentally improved
- Dual tips, 45° and S-shaped
- Ventilated, to avoid getting stuck





## Hygo® Tip XL Bio

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Hygo Tip XL Bio aspirator tube with a 16 mm diameter offers a high suction capacity. The sturdy design works as tongue holder and allows retraction of the cheek. Ventilation grooves to avoid getting stuck. Hygo Tip XL Bio is made of fossil-free Green PE and autoclavable PP. Single use.

- Environmentally improved
- High suction capacity, 16 mm
- Sturdy design, works as tongue holder
- Ventilated, to avoid getting stuck

## H16-11 Bio Adaptor

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Reduction adaptor 16-11 mm for connection of Hygo Tip XL Bio to 11 mm evacuation system. The adaptor is made of fossil-free Green PE and autoclavable PP. Single use.





## Spotnix® Bio

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Spotnix Bio, 11 mm aspirator tube with soft well-shaped edges. Length 120 mm. Ventilated and more pleasant for the patient. Made of fossil-free Green PE and autoclavable PP. Single use.

- Environmentally improved
- Tissue friendly, rounded edges
- Ventilated, to avoid getting stuck

## Bio Cup

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Bio Cup, a dental rinsing cup made of bamboo. By replacing conventional rinsing cups in plastic with bamboo, we reduce the level of carbon dioxide in the atmosphere and help save the planet for future generations. 21 cl. Single use.

- Environmentally improved
- Water based coating
- PE and PLA free



# ORSING's Life Cycle Assessment



## Aspirator tubes Bio:

- 72 % lower climate impact compared to the corresponding fossil Orsing product.
- Cradle to Grave
  - Carbon footprint based on GWP-total (incl. biogenic emissions and land use change, LULUC)

| Phase                | Aspirator Tube Bio |                     |                   |                   | Aspirator Tube (fossil-based) |                     |                   |                   | Bio vs, Fossil-based |
|----------------------|--------------------|---------------------|-------------------|-------------------|-------------------------------|---------------------|-------------------|-------------------|----------------------|
|                      | GWP-fossil (gCO2e) | GWP-biogenic (gCO2) | GWP-luluc (gCO2e) | GWP-total (gCO2e) | GWP-fossil (gCO2e)            | GWP-biogenic (gCO2) | GWP-luluc (gCO2e) | GWP-total (gCO2e) |                      |
| Material acquisition | 4,92               | -8,07               | -1,08             | -4,23             | 9,40                          | 0,00                | 0,00              | 9,40              | -145%                |
| Production           | 0,10               | 0,00                | 0,00              | 0,10              | 0,10                          | 0,00                | 0,00              | 0,10              | 0%                   |
| Delivery             | 0,73               | -0,42               | 0,00              | 0,31              | 0,79                          | -0,19               | 0,00              | 0,60              | -48%                 |
| Use                  | 0,00               | 0,00                | 0,00              | 0,00              | 0,00                          | 0,00                | 0,00              | 0,00              | N/A                  |
| End of life          | 0,17               | 8,88                | 0,00              | 9,05              | 8,23                          | 0,19                | 0,00              | 8,42              | 7%                   |
| Total                | 5,92               | 0,39                | -1,08             | 5,23              | 18,52                         | 0,00                | 0,00              | 18,52             | -72%                 |

Table 4. Comparison of GWP-total between bio plastic and fossil plastic products

## Hygoformic Bio:

- 41 % lower climate impact compared to the corresponding fossil Orsing product.
- Cradle to Grave
  - Carbon footprint based on GWP-total (incl. biogenic emissions and land use change, LULUC)

| Phase                | Hygoformic Bio     |                     |                   |                   | Hygoformic (fossil-based) |                     |                   |                   | Bio vs, Fossil-based |
|----------------------|--------------------|---------------------|-------------------|-------------------|---------------------------|---------------------|-------------------|-------------------|----------------------|
|                      | GWP-fossil (gCO2e) | GWP-biogenic (gCOe) | GWP-luluc (gCO2e) | GWP-total (gCO2e) | GWP-fossil (gCO2e)        | GWP-biogenic (gCO2) | GWP-luluc (gCO2e) | GWP-total (gCO2e) |                      |
| Material acquisition | 10,48              | -5,40               | -0,72             | -4,37             | 12,47                     | -0,01               | 0,00              | 12,45             | -65%                 |
| Production           | 0,07               | 0,01                | 0,00              | 0,08              | 0,07                      | 0,01                | 0,00              | 0,08              | 0%                   |
| Delivery             | 0,78               | -0,28               | 0,00              | 0,51              | 0,83                      | -0,19               | 0,00              | 0,64              | -21%                 |
| Use                  | 0,00               | 0,00                | 0,00              | 0,00              | 0,00                      | 0,00                | 0,00              | 0,00              | N/A                  |
| End of life          | 0,19               | 5,92                | 0,00              | 6,11              | 5,31                      | 0,19                | 0,00              | 5,50              | 11%                  |
| Total                | 11,52              | 0,26                | -0,72             | 11,06             | 18,67                     | 0,00                | 0,00              | 18,67             | -41%                 |

Table 4. Comparison of GWP-total between bio plastic and fossil plastic products

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