

ORSING

BIO LINE

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



ORSING

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

- 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. Machine usage is limited between harvests cycles.
- 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

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

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

Hygoformic® Bio Adaptor

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





Scantube® Bio

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

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

Scantube® Vent Bio

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

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





Hygovac® Bio

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

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

Hygovac® Vent Bio

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

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





Hygo® Tip XL Bio

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 from 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

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





Spotnix® Bio

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

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

Bio Cup

Bio Cup, a dental rinsing cup made from 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

ORSING

J.H. Orsing AB
+46 42 295 500
orsing@orsing.se
www.orsing.se

DirectaDentalGroup
DIRECTA topdental KOHLER DENTAL RÖNVIG
polydentia DEPPELER parkell ORSING

