



# Reduce your Product Carbon Footprint with SCHOTT FIOLAX® Pro OCF

## Be one step ahead

### We need to act now

The pharmaceutical industry faces significant challenges from climate change and increasing regulatory pressures. Human activities, especially GHG emissions, drive global warming, causing extreme weather and ecosystem disruptions.

Governments are enforcing strict regulations, impacting energy-intensive sectors. Frameworks like the European Green Deal, the U.S. Clean Air Act and national carbon pricing push companies toward sustainability.

As a vital part of the global pharmaceutical value chain, we recognize our moral and social duty to reduce emissions and protect the planet for future generations. Sustainability is crucial to our corporate reputation, as customers, investors, and stakeholders increasingly prioritize it.

With SCHOTT's ambitious climate targets, we achieved to join the Science Based Targets initiative (SBTi) and thus contributing to limiting global warming to 1.5 degree Celsius with validated actions.

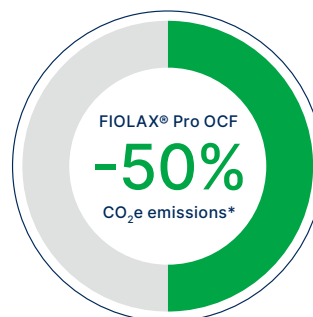
To transition to low-carbon solutions, we must adopt energy-efficient technologies, sustainable manufacturing, and focus on products with a reduced Product Carbon Footprint (PCF). This not only mitigates regulatory risks but also combats climate change and positions companies as sustainability leaders.

### SCHOTT is paving the way

We are committed to transforming our energy-intensive specialty glass production into a future-oriented operation. This transformation is also reflected in our products.

By implementing a completely new electric tank technology and by using 100% green electricity, SCHOTT Tubing significantly reduces the Product Carbon Footprint of its new product line of pharmaceutical glass: FIOLAX® Pro OCF (Optimized Carbon Footprint).

Together with a certified product carbon footprint declaration, this not only advances SCHOTT's own climate initiatives but also enables our customers for the first time to calculate their Scope 3 emissions in a transparent, reliable way and achieving their environmental goals.



\*Calculation of greenhouse gas emissions from cradle-to-gate per kilogram of saleable glass tubing compared to the market average for borosilicate glass tubing [average value according to ecoinvent 3.10; glass tube production, borosilicate // DE].

# FIOLAX® Pro OCF

Starting in early 2027 the FIOLAX® Pro OCF (Optimized Carbon Footprint) product line will be produced in Germany in our first electric melting tank powered by 100% green electricity. This results in a 50% lower CO<sub>2</sub>e footprint (Product Carbon Footprint, PCF)\*.

In order to ensure a high degree of reliability and transparency, both the value and the PCF guideline for its calculation are certified by the external, accredited institute GUTcert.

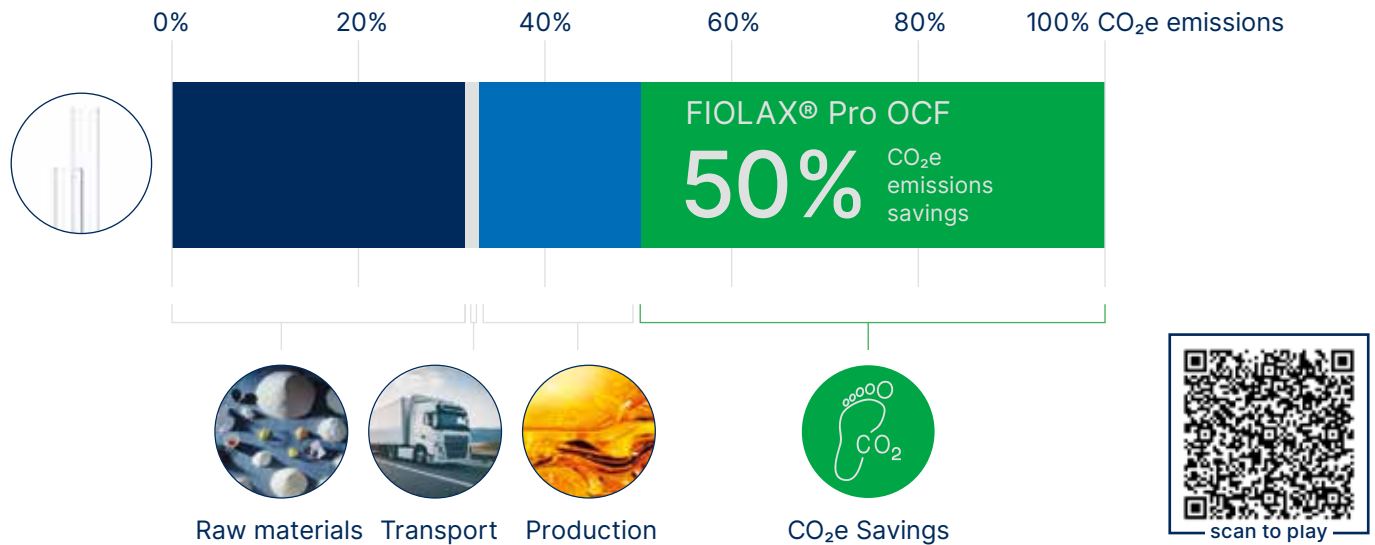
FIOLAX® Pro and its product line FIOLAX® Pro OCF are free of heavy metals, boast outstanding hydrolytic resistance and have an improved extractables profile.

It is customizable with adjustable specifications for tighter tolerances and lower defect rates (further details see next page).



\*Calculation of greenhouse gas emissions from cradle-to-gate per kilogram of saleable glass tubing compared to the market average for borosilicate glass tubing [average value according to ecoinvent 3.10; glass tube production, borosilicate // DE].

## Discover the emission breakdown for FIOLAX® Pro OCF\*



### Get in contact: Dr. Claudia Heini

Senior Product Manager Pharmaceutical Tubing

To get:

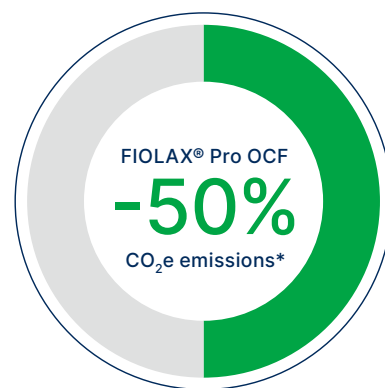
- Validation support
- Ordering guidance for sampling

[claudia.heini@schott.com](mailto:claudia.heini@schott.com)

Order your FIOLAX® Pro validation sample **now**

# FIOLAX<sup>®</sup> Pro OCF – Optimized Carbon Footprint

Our future-proof pharmaceutical glass tubing with 50% of decarbonization\*.  
This is achieved by a production in an electric tank with 100% green electricity.

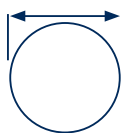


## Facts at a glance

### Application portfolio



For all pharmaceutical applications:  
syringes, cartridges, vials, ampoules



Outside diameter range: 6,85 – 40,00 mm,  
incl. ISO as well as customized sizes

### Features

#### Production technology

Electric melting tank with 100% green electricity

#### Regulatory classification (e.g. USP<sup>1</sup>/Ph.Eur.<sup>2</sup>)

Type I (Borosilicate glass)

#### Composition: primary components (approx. in % by weight)

SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	CaO
73	11	7	7	< 1	< 1

#### Free of heavy metals, in particular



#### Extractables profile

Superior

- does not contain any element of the ICH-Q3D class 1, 2A, 2B and 3
- persistently high hydrolytic resistance

#### Color



#### perfeXion<sup>®</sup> processed



### Customizing options



Tube-end-finish



Anti-scratch coating



Tighter tolerances



Zero defect options

1 USP = United States Pharmacopoeia | 2 Ph. Eur. = European Pharmacopoeia

All specifications are subject to change without prior notice. This datasheet or any extracts thereof may only be used in other publications with express permission of SCHOTT.

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