



SWIX Fluoro Free Program

FIS Fluoro Ban Response and Assets



The Official Wax and Tool Supplier



FIS Competition Fluoro Ban-

FIS to fully implement fluor wax ban at start of 2023-24 season

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Alpine World Cup Opener- Womens Race has First “Red” Fluoro Positive Result-

Ragnhild Mowinckel becomes first DQ'd skier under new wax rule

Associated Press

Oct 28, 2023, 11:05 AM ET

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SOELDEN, Austria -- Norway's Ragnhild Mowinckel left the finish area of the season-opening women's World Cup race in tears Saturday after becoming the first skier to be disqualified for a forbidden type of wax on her skis.

Mowinckel, a two-time Olympic silver medalist from the 2018 Pyeongchang Games, had finished the first leg in sixth place before her skis failed the mandatory post-run test by FIS officials, who took her out of the competition.

The race was [won by Lara Gut-Behrami](#) of Switzerland, while Mikaela Shiffrin placed sixth.

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"We must find out what happened. We are not trying to cheat, because that is the worst thing for me," Mowinckel told Norwegian broadcaster TV 2.

Peter Gerdol, the women's race director of the International Ski and Snowboard Federation, said all skis were tested for the banned substance after both runs.

"This was the only ski that showed quite a high value, way more than the minimum threshold, so the jury had no other option than to disqualify the athlete," Gerdol said.



World Cup slalom champ
Braathen retires at 23

1d

FIS will carry out testing at top-tier events, including the FIS World Ski Championships, the FIS World Cup competition, and other major events such as FIS Junior World Ski Championships. Testing at lower-level events will be carried out randomly to ensure that those events are also regulated.



Fluoro Ban Details-

The International Ski and Snowboard Federation (FIS) today announced that the fluor wax ban will be fully implemented at the start of the upcoming 2023/2024 winter season.

FIS has remained committed to banning fluor products used in ski preparation given the health risks and environmental concerns connected to fluorine waxes. Working with Bruker, a leading manufacturer of high-performance scientific instruments, while maintaining a close collaboration with the International Biathlon Union (IBU) through a joint working group, an effective and accurate testing method was developed.

FIS spent the last winter carrying out extensive testing of the device and training of the officials who will carry out the testing, ensuring that the device will provide reliable results to ensure fluor-free competitions.

FIS will carry out testing to ensure that skis are fluor-free at top-tier events, including the FIS World Ski Championships, FIS World Cup competition and other major events such as FIS Junior World Ski Championships. Testing at lower-level events will be carried out on a random basis to ensure those events are also regulated.

"We are pleased that we can now fully implement the fluor wax ban across our major competitions," said FIS Vice President Roman Kumpost who worked closely with the project. "This is a key step in guaranteeing the integrity of competitions and minimizing the impact of the adverse health and environmental effects of the product."

FIS will continue to work closely with all involved stakeholders throughout the summer to ensure everyone is fully prepared when the ban takes full effect at the start of the 2023-24 winter season.

- **Committed to the Fluoro Ban.**
- **Citing health risks.**
- **Developed the "Fluoro Tracker".**
- **FIS will carry out ski testing.**
- **Lower level races will be "random".**

FIS Fluoro Tracker Machine- \$30K



SWIX bought one of these machines to ensure new wax recipes do not test positive for PFAS.



FIS Fluoro Tracker-

Measuring procedure

- Aim to test one ski of each pair
- 0-1 GREEN points, move to the next point, up to three points
- If the Fluor Equipment Controller finds more than one fluor-positive point during the measurement, they will measure as many points as needed to confirm the result. If they find three points to be positive, they will disqualify the participant (DSQ).
- The Fluor Equipment Controller places skis testing green in a dedicated rack for immediate collection.
- The Fluor Equipment Controller will place skis testing positive for fluor in the dedicated RED rack. The representative (NSA/SRS) can then request to see the measured points after the end of the race.



Measuring table

Threshold zones				
0-1	> 1			
Measurement result in 3 points			Reaction	Decision
			OK	OK
			Failed	DSQ

SWIX has been Fluoro Free at **ALL** levels of Racing Since 2022/23.



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SWIX Fluoro Free Resources-

WWW.SWIXSPORT.COM/US Norway Support Content



New cleaner: 194 Pro Cleaner is our recommendation for removing fluoros from skis. It is a new product that currently is under production.

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Portfolio presented by this
Fluoro Free

Guide: Clean fluoros from skis

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US Focused SWIX-Fluoro Free Assets- <https://www.youtube.com/@swixus/videos>



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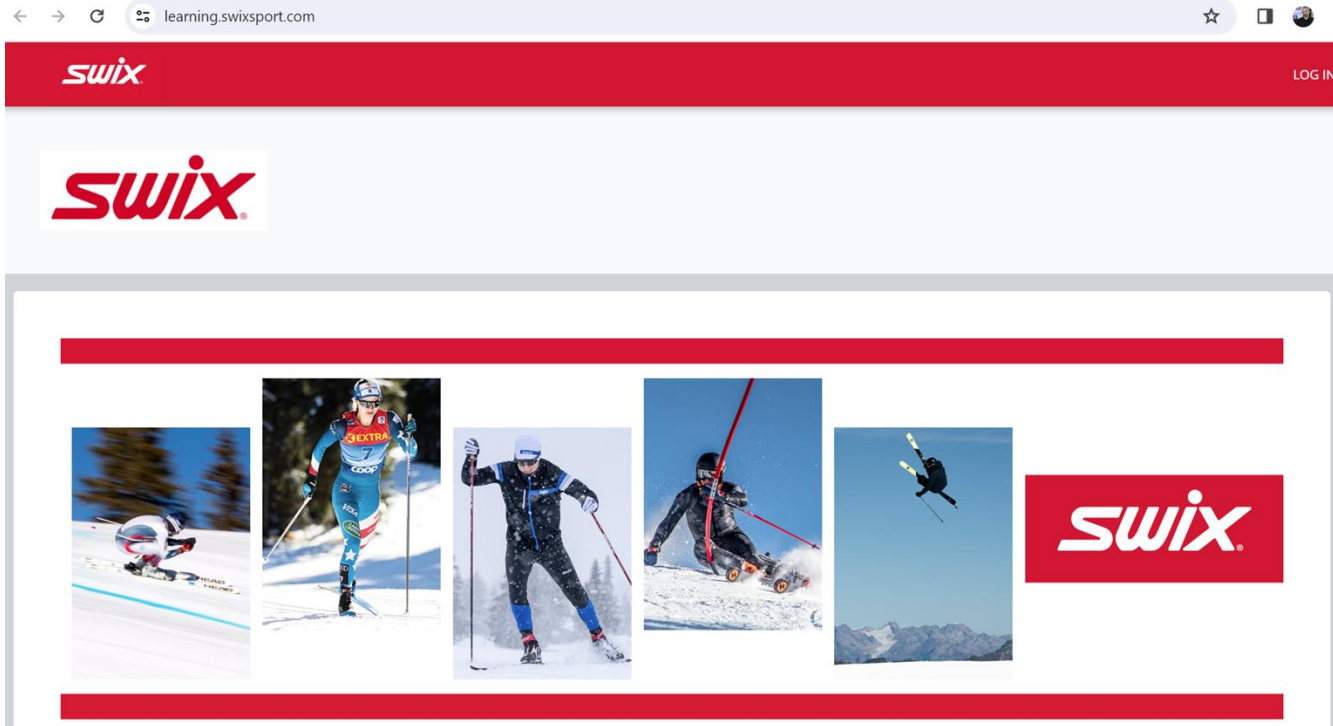


Swix Responsible Waxing - Alpine (full)
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Fluoro Free Platform- EPA “Coaches Education Center

<https://learning.swixsport.com/login/index.php>



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Welcome to the Swix Virtual Learning Center

Welcome to the Swix Learning Center, a portal to cutting edge online courses, technology and resources for the Nordic and Alpine skiing and snowboarding community.

The learning center will offer web-based courses, videos and visual learning experiences to enhance your skills as a coach, a technician, a competitive skier or snowboarder or someone who just wants to improve your winter sports experience.

Start by [signing up for a free account](#) to browse our free course offerings.

Many of our courses will qualify for US Ski & Snowboard continuing education credits for registered coaches. These courses will be marked with the US Ski & Snowboard logo.



Responsible Waxing Project



As Skiers and Snowboarders, we are privileged to call mountains and trails our workplace and our playground. It is our responsibility to ensure that these beautiful landscapes remain healthy and clean for the next generation.

The top governing bodies for competitive skiing are taking a stand for the environment. Both the International Ski Federation and U.S. Ski and Snowboard will phase out fluorinated waxes. In this course you will learn the best practices for waxing safely, effectively, and environmentally.

How to Get Started

To start this course, click on the red course title on the left. You will then be prompted to create an account, or log into an existing one. If you are creating a new account, be sure to **check your email** and spam folder for a log in link!



This course will provide 1 credit towards US Ski and Snowboard continuing education.

Removing Fluorinated Wax from Alpine Skis



This course provides the basic science of fluorinated chemicals and why it is essential to minimize our use of such chemicals to protect the environment. You will also learn the best practices for removing fluorinated wax from your skis safely, effectively, and environmentally so you can do your part to minimize any environmental damage.



This course will provide 1 credit towards US Ski and Snowboard continuing education.

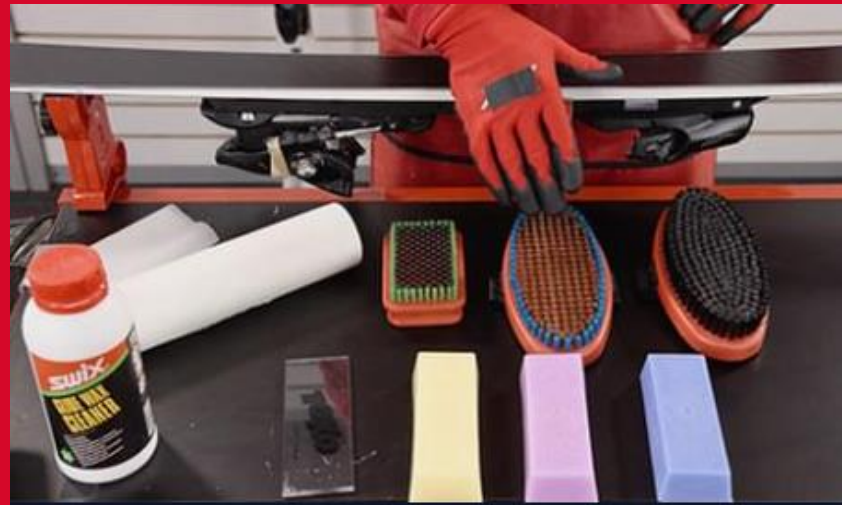
Removing Fluorinated Wax from Nordic Skis



This course provides the basic science of fluorinated chemicals and why it is essential to minimize our use of such chemicals to protect the environment. You will also learn the best practices for removing fluorinated wax from your nordic skis safely, effectively and environmentally so you can do your part to minimize any environmental damage.

SWIX "Fluoro Free" Bundled Tuning Package

- I84 Fluoro Free Glide Wax Cleaner (I84N)
- PS10 180g (PS10180)
- PS7 180g (PS08180)
- PS6 180g (PS06180)
- Oval Steel Brush (T1790)
- Oval Bronze Brush (T1620)
- Hand Fine Steel Brush (T191B)
- Fiberlene (T151)
- 4mm Plastic Scraper (T824D)



RRP- \$451.50

Special Bundle Pricing- Wholesale -25% \$170.00

RRP -25% \$338.50

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