

GUIDELINES

CLEANING OF USED EQUIPMENT FROM FLUORINATED SUBSTANCES

This document describes the recommended process to “clean” used equipment from fluorinated substances and reduce contamination down to a level where no competitive advantage is present.

Cleaning of skis

1. Clean the running base with a fluor cleaner by applying the liquid with a cloth. Then rub the base surface intensively with a fluor-free cleaning brush (stiff nylon). Let dry for 15 min, continue to brush the ski with a clean steel or bronze brush.
2. Perform “Hot Fluor-free wax cleaning”. Iron in a fluorine-free paraffin. After cooling heat it up two more times. After the third warm up you scrape down the paraffin while it’s still warm. Brush out the rest of the wax.

Grinding the bases of skis is an option that will also remove contamination fluorinated compounds from surface layers. Grinding is recommended for base material made with fluorinated additives since research shows that these additives migrate to the surface. After grinding step 1 and 2 should be repeated.

Equipment cleaning

- **Iron:** Scrape off excessive wax. Warm the iron and clean liquid wax residuals with a cloth. Melt non-fluorinated wax and clean with a cloth.
- **Scrapers:** Scrape off wax residuals. Clean with base cleaner, wash with water and soap, rinse thoroughly.
- **Brushes:** Vacuum clean the wax dust from the brush. Use the brush extensively while cleaning skis with hot wax and vacuum clean between every application. Dip the bristles in a base cleaner and brush over an edge to further clean the brush. Let dry and vacuum clean.
Warning: As brushes may be the most difficult equipment to clean thoroughly one should consider replacing used brushes with new ones.
- **Roto fleece:** Based on experience we recommend replacing roto fleece and similar equipment as they have shown to be almost impossible to clean thoroughly.
- **Apron:** Wash in washing machine with high temperature cycle.
- **Files and file guides:** Brush the equipment with a soft file brush. Vacuum clean. Dip into a base cleaner, wipe off and vacuum clean.
- **Ski Bags:** Vacuum any dust, wipe clean with cloth and base cleaner, wash with water and soap, rinse thoroughly.
- **WaxBox:** Vacuum any dust, wipe clean with cloth and base cleaner. Check all ski waxes and make sure that your ski box contains only fluorine-free products.

To secure a healthy working environment the wax room should be thoroughly cleaned. It is important to remove as much dust particles as possible.