



JAPAN ORIGINAL WAX,

**GALLIUM**

**GALLIUM WAX 2017/2018**

**PRODUCT INFORMATION**

**GO BEYOND BORDERS**  
WITH POWER OF  
**GALLIUM**



**GIGASPEED  
MAXFLUOR**

SKI/SNOWBOARD FLUOROCARBON LIQUID WAX

JAPAN ORIGINAL WAX, GALLIUM

**GALLIUM**

<http://www.galliumwax.co.jp>



FLUOROCARBON LIQUID WAX

**SPEED  
FLUOR**



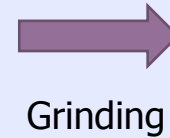
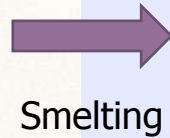
Head office building



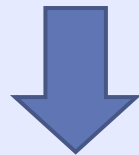
Manufacturing plant



# Features of GALLIUM WAX



**Unique development of processing technology to blend into wax**



Melting point of gallium is 29.8°C

- Technology of fine-grinding to particulate of under 5 $\mu$ m
- Technology of forming thin film on each particulate

# The History of GALLIUM

- 1983 Start of ski wax research
- 1989 Business started under "DOWA Minings Co., Ltd." (Dowa Holdings Co., Ltd. in current name)
- 1994 "DOWA GALLIUM WAX SALES Co., Ltd." was founded in Sendai
- 2002 As the first in the world, GALLIUM starts a tentative sale of their liquid fluor wax "DOCTOR FCG Maxfluor" in Japan
- 2009 During the 2009 Nordic World championship in Liberec, Japan National Team performs extraordinarily well and draws the attention of other teams and coaches
- 2010 We have a track record of an agreement for wax test with Norwegian cross country team between 2010 to 2012.
- 2011 GALLIUM improves the "Dr. FCG Maxfluor" series and starts selling it as "**GIGA SPEED Maxfluor**"
- 2014 We started selling "**GIGA SPEED Maxfluor SUPER WET**" on the open market, that was developed for the 2014 Winter Olympics
- 2016 As the first in the world, "Metallic ION series" that is mixed metallized ion is released in the world market.



# Japanese Nordic Team showed the performance of our products In 2009 Nordic World Championship Liberec



**Thanks to its incredible performance,  
use rate in domestic races is more than 90%**

## **Press release: Norwegian Ski Federation and Gallium's distributor in Norway made a contract about wax testing**

Gallium wax and Ski Federation contracted

25/11/2010

The Norwegian Cross-country Ski Federation and GALLIUM WAX / GO-SKI.NO have entered into a two-way cooperation agreement that ensures that the Norwegian National Team can use Gallium wax until the World Cup 2011 in Oslo. Gallium wax, on the other hand, has unique benefits that the world's best National Team to test Gallium products.

Waxing manager Knut Nystad says that they became aware of Gallium wax because Japanese Cross-country and Nordic Combined athletes had excellent results during the World Championships in Liberec. Nystad confirms that the National Team in Cross-country used Gallium wax during the medal rush in the Vancouver Olympics and during the World Cup in Holmenkollen.

According to Knut Nystad, liquid products of Gallium, GALLIUM DR FCG MAXFLUOR and GALLIUM GIGA SPEED, are close to a revolution of wax.

These two products have sliding properties and wear resistance in a special class.

Press release from the Norwegian Ski Federation and Gallium Wax / GO-SKI.no.

### **Gallium wax og Skiforbundet med avtale**

25.11.2010

Norges Skiforbund Langrenn og GALLIUM WAX / GO-SKI.NO har inngått en tosidig samarbeidsavtale som sikrer at de norske landslagene får benytte Gallium wax fram til og med VM-2011 i Oslo.

Gallium wax drar på sin side unike fordeler av at det er verdens beste landslag og smøreteam som tester Gallium-produktene. Smøresjef Knut Nystad sier at de ble oppmerksomme på Gallium wax fordi japanske langrenns- og kombinertløpere hadde glid i særklasse under VM i Liberec.

Nystad bekrefter at landslagene i langrenn benyttet Gallium wax under medaljehøstingen i OL i Vancouver og under prøve-VM i Holmenkollen.

I følge Knut Nystad er Gallium wax sine flytende produkter, GALLIUM DR FCG MAXFLUOR og GALLIUM GIGA SPEED, så nær en smørevolusjon som man kan komme.

Disse to gliproduktene har gliensgenskaper og slitestyrke i særklasse.

Pressemelding fra Norges Skiforbund og Gallium Wax / GO-SKI.no.

# GIGASPEED

## 1. GIGA SPEED Series

GALLIUM Liquid fluor waxes do **NOT contain Petroleum Solvents.**

So it NEVER damages CH type waxes.

We developed and marketed the world's first Liquid fluor wax (Doctor FCG Maxfluor) in 2002.



# (1) GIGA SPEED Maxfluor (Liquid fluor wax)



## **GIGA SPEED MAXFLUOR Dry** (Liquid fluor wax for dry snow)

- 1) Temperature range:  $-20^{\circ}\text{C} \Leftrightarrow -3^{\circ}\text{C}$
- 2) 30ml:GS3101, 15ml:GS3102
- 3) The only fluor wax glides best under cold conditions, on hard barn and artificial snow
- 4) Apply GIGA SPEED Max Fluor Dry on the base evenly and finish by brushing very lightly with nylon brush
- 5) No need brushing when humidity is high, or when snow melt and turn to large drops of ice



## **GIGA SPEED MAXFLUOR** (Liquid fluor wax for wet snow)

- 1) Temperature range:  $-5^{\circ}\text{C} \Leftrightarrow 10^{\circ}\text{C}$
- 2) 30ml:GS3301, 15ml:GS3305
- 3) This liquid wax has a wide temperature range and can get high gliding performance on any kind of snow.
- 4) Getting excellent feedbacks from many National Teams in World Cup Competitions
- 5) Specifically developed for athletes demanding better gliding qualities during Ski and Snowboard races
- 6) Bottle is developed that can be easily applied anywhere as a fresh coating and No need for brushing!  
Brush very lightly with nylon brush only when race under snow fall
- 7) Especially fast on wet snow. Essential for spring races!



## **GIGA SPEED MAXFLUOR Super Wet** (Liquid fluor wax for very wet snow)

- 1) Temperature range:  $-1^{\circ}\text{C} \Leftrightarrow 10^{\circ}\text{C}$
- 2) 30ml:GS3303
- 3) Developed for Sochi Olympic Games. Best for very wet and dirty snow.
- 4) Especially fast on wet snow. Essential for spring races. Performs well until  $-4^{\circ}\text{C}$  and in humidity of 80% or more
- 5) Can be easily applied anywhere as a fresh coating. No need for brushing!  
Brush very lightly with nylon brush only when race under snow fall



## **GIGA SPEED MAXFLUOR JET** (Liquid fluor wax for wet snow)

- 1) Temperature range:  $-5^{\circ}\text{C} \Leftrightarrow 10^{\circ}\text{C}$
- 2) 1 sheet:GS3304
- 3) The same liquid of GIGA SPEED Maxfluor(GS3301) is contained in a special single-use cloth  
For those curious to give the liquid wax a try
- 4) The numbers that can be applied Alpine ski= 1 pair, Cross country ski= 2 pairs, Snowboard= 1 board



## **(2) PRO LIQUID** (For racing service)

- PRO SERIES is well tested and proven at WC races as "special service wax"
- Faster than Maxfluor series under specific conditions

### PRO Liquid004 | GS6004 (30ml)

- 1) Temperature range:  $-5^{\circ}\text{C} \Leftrightarrow -2^{\circ}\text{C}$
- 2) Liquid fluor for artificial snow

### PRO Liquid022 | GS6022 (30ml)

- 1) Temperature range:  $-5^{\circ}\text{C} \Leftrightarrow -2^{\circ}\text{C}$
- 2) Liquid fluor for new natural snow  
Especially effective when snowing
- 3) You can get extremely high performance on  $-4^{\circ}\text{C}$  of snow temp.





### (3) **GIGA SPEED POWDER** (POWDER fluor wax)

GIGA SPEED POWDER series can be worked by mixing them to get high gliding performance on variety of snow type and snow temperature



#### **GIGA SPEED POWDER Dry** (Powder fluor wax for dry snow)

- 1) Temperature range:  $-20^{\circ}\text{C} \Leftrightarrow -9^{\circ}\text{C}$  -when humidity is low (about 40%), can be used until  $-3^{\circ}\text{C}$
- 2) 20g:GS1101
- 3) Glides best under cold conditions, on hard tracks and artificial snow  
Can get smooth glide feeling by reducing friction between snow
- 3) Sprinkle GIGA SPEED POWDER Dry and work with iron in  $160^{\circ}\text{C}$
- 4) Brush lightly with horse-hair-brush, then polish with cork, then finish by brushing again
- 5) When snow temp is much colder, use iron lightly and polish with cork, to reduce friction between ski and snow



#### **GIGA SPEED POWDER Moist** (Powder fluor wax for wet and moist snow)

- 1) Temperature range:  $-10^{\circ}\text{C} \Leftrightarrow -1^{\circ}\text{C}$  -have the most useful range of snow and temperature
- 2) 30g:GS1201, 100g:GS1202, 300g:GS1203
- 3) Suitable for a variety of snow like humid snow and granular snow
- 4) "POWDER Moist" glides better than "POWDER Wet" on granular snow even it wets



#### **GIGA SPEED POWDER Wet** (Powder fluor wax for very wet snow)

- 1) Temperature range:  $-2^{\circ}\text{C} \Leftrightarrow 10^{\circ}\text{C}$
- 2) 30g:GS1301, 100g:GS1302, 300g:GS1303
- 3) Suitable for soft snow which is very wet and dirty
- 4) GIGA SPEED POWDER Wet works as an excellent water repellent and improves your glide performance on wet and soft snow, especially melted new snow, sleety snow or race under rain
- 5) On wet granular or wet artificial snow, mix with Powder Moist or Dry for better performance



## (4) **GIGA SPEED SOLID** (*SOLID fluor wax*)

**GIGA SPEED SOLID Dry** (10g) | GS2102 (Solid fluor wax for dry snow)

- 1) Temperature range:  $-20^{\circ}\text{C} \Leftrightarrow -6^{\circ}\text{C}$
- 2) Especially good for dry and artificial snow
- 3) Contains gallium and fluorine for cold and hard snow
- 4) Gallium works well by sticking strongly on soles and reducing frictions between ski and hard snow



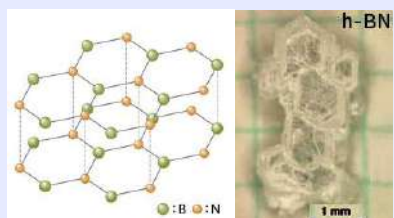
**GIGA SPEED SOLID Wet** (10g) | GS2301 (Solid fluor wax for wet snow)

- 1) Temperature range:  $-5^{\circ}\text{C} \Leftrightarrow +10^{\circ}\text{C}$
- 2) Solid is very suitable as a start wax, easily applicable as a fresh coating
- 3) GIGA SPEED SOLID Wet is 100% fluor wax. And it contains totally same constituent with GIGA SPEED POWDER Wet. It is produced in block shape by special processing



## (5) **GIGA SPEED BN\_BLOCK** (50g) | GS4004 (High fluor glide wax, HF paraffin wax)

- 1) Temperature range:  $-20^{\circ}\text{C} \Leftrightarrow -2^{\circ}\text{C}$
- 2) BN\_BLOCK contains the new material „BN“ (Boron Nitride)
- 3) BN has layers of hexagonal form. And the layers are held together by weak force. (see diagram below)  
It works as a lubricant and reduces friction between ski and snow
- 4) BN\_BLOCK only works by mixing with HYBRID HF series or Kassoh(LF) series.
- 5) Mixture example
  - On dry snow  
HYBRID HF BLUE:3 + GIGA SPEED BN\_BLOCK:1  
Kassoh(LF) BLUE:2 + GIGA SPEED BN\_BLOCK:1
  - Cross-country trails are in the form of mirror  
HYBRID HF VIOLET:4 + GIGA SPEED BN\_BLOCK:1



## 2. METALLIC ION SERIES (High fluor glide wax)



**METALLIC ION Dry** (50g) | GS5002 (HF Paraffin wax for dry snow)

- 1) Temperature range:  $-3^{\circ}\text{C} \Leftrightarrow -10^{\circ}\text{C}$
- 2) Glides best under cold conditions, on hard tracks and artificial snow



**METALLIC ION Moist** (50g) | GS5003 (HF Paraffin wax for moist snow)

- 1) Temperature range:  $-3^{\circ}\text{C} \Leftrightarrow 0^{\circ}\text{C}$
- 2) Suitable for a variety of snow like humid snow, granular snow
- 3) Best glide on snowing race between  $-3^{\circ}\text{C}$  to  $0^{\circ}\text{C}$



**METALLIC ION Wet** (50g) | GS5004 (HF Paraffin wax for wet snow)

- 1) Temperature range:  $0^{\circ}\text{C} \Leftrightarrow +10^{\circ}\text{C}$
- 2) Best suited for Spring and wet conditions
- 3) Mix with Moist or Dry, on wet granular or wet artificial snow

# GALLIUM METALLIC ION series

gives you top gliding performance by reducing friction between ski and snow

The world's first and only wax that is mixed raw material of "ionized metal". By mixing ionized metal, dispersibility and fixability of metals on base improves. So friction between ski and snow reduces and also can keep dust and dirt away from base. As a result of it, you can get excellent endurance of gliding. So METALLIC ION series is HF paraffin wax, but it is similar in gliding performance to fluor powder.

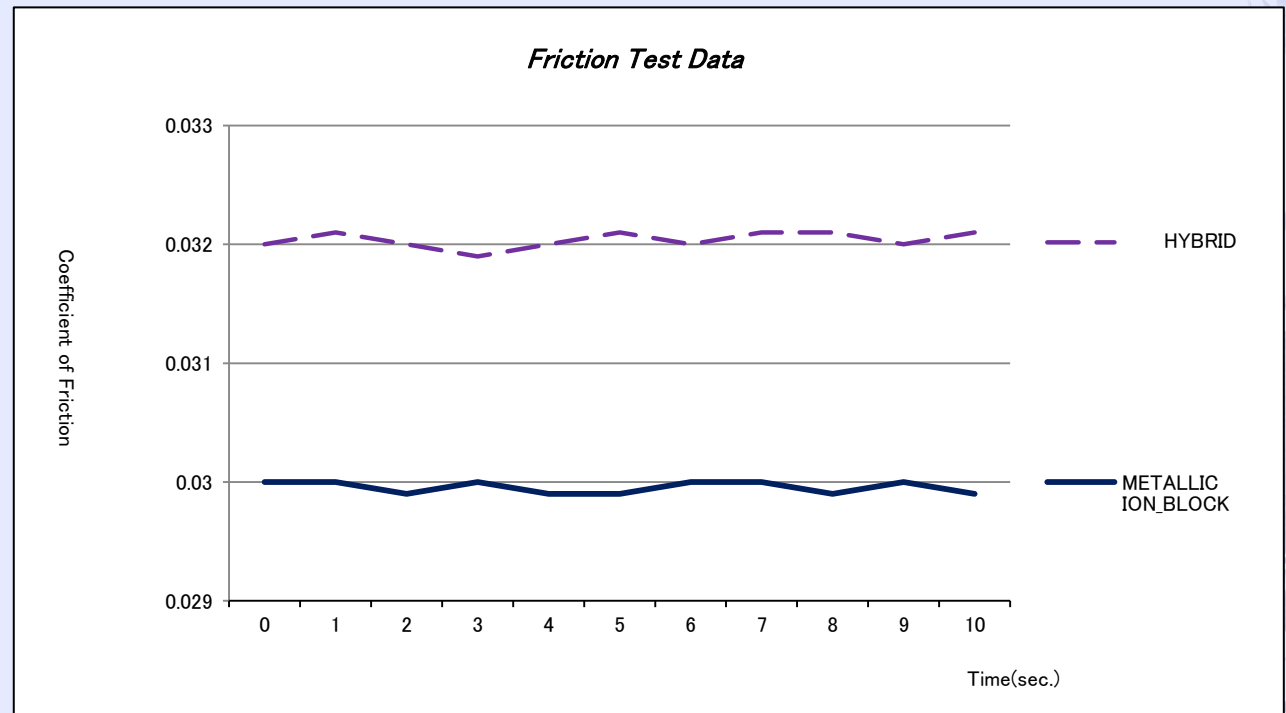
-10°C → -3°C DRY



-3°C → 0°C MOIST



0°C → +10°C WET







# How to create METALLIC ION

☆Patented, one and only technology by Gallium

## Raw materials



Gallium



Metal A



Metal B

Melt into solvents

## Solvents with metals



Mix into paraffin

*The Worlds First Development of mixing Ionized Metal into waxes*



Paraffin powders with "Ionized Metals"

### 3. D-CONTROL

**D-CONTROL** (100g) | SW2173(HF Paraffin wax)

1. Developed as a base wax for long distance races on spring snow and dirty snow
2. Mixture of dirt-repellent materials and dirt-resistant paraffin keeps your ski base clean during race.
3. Use as base wax and apply METALLIC ION series (HF) and GIGA SPEED series (Fluor) on its base, to make more "Anti Dirt" skis for your endurance.

Dirt Adhesion Test Result – wipe the dirt off after 7km running  
(Feb 20<sup>th</sup> 2017 | at Sapporo | AirTemp:-3°C | SnowTemp:-4°C | New Snow)



D-CONTROL+HYBRID HF BLUE  
(Less dirt on ski base)

HYBRID HF BLUE



## 4. HYBRID HF Series/ HF GRIDE WAX

TOP WAX ( Fluoro Wax )

Can be used as base wax of METALLIC ION series

Temperature Range	-20℃ ↔ -10℃	-12℃ ↔ -3℃	-4℃ ↔ +3℃	0℃ ↔ +10℃
	Cold Fresh Snow, Dry Snow Hard wax to protect the ski against piercing snow crystals and cold powder snow	For All Snow Types Suitable for wide range of snow types, especially dry, fresh and powder snow	For All Snow Types Suitable for humid and granular snow Best wax on Japanese humid snow	Very Humid and Wet Snow Excellent water repelling quality on wet snow around the melting point or after rain



HYBRID HF GREEN(50g)  
|SW2150



HYBRID HF BLUE(50g)  
|SW2151



HYBRID HF VIOLET(50g)  
|SW2152



HYBRID HF PINK(50g)  
|SW2153

## 5. KASSOH(滑走) Series/ LF GRIDE WAX

**LF**

Low Fluoro Wax  
in low air humidity(<60%)



Product Number: SW2123  
Product Name: Kassoh GREEN (50g)



Product Number: SW2124  
Product Name: Kassoh BLUE (50g)

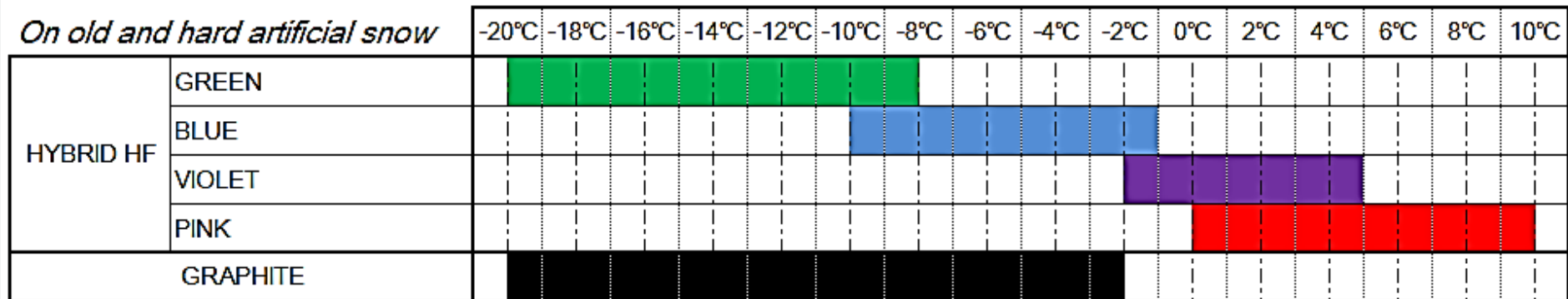
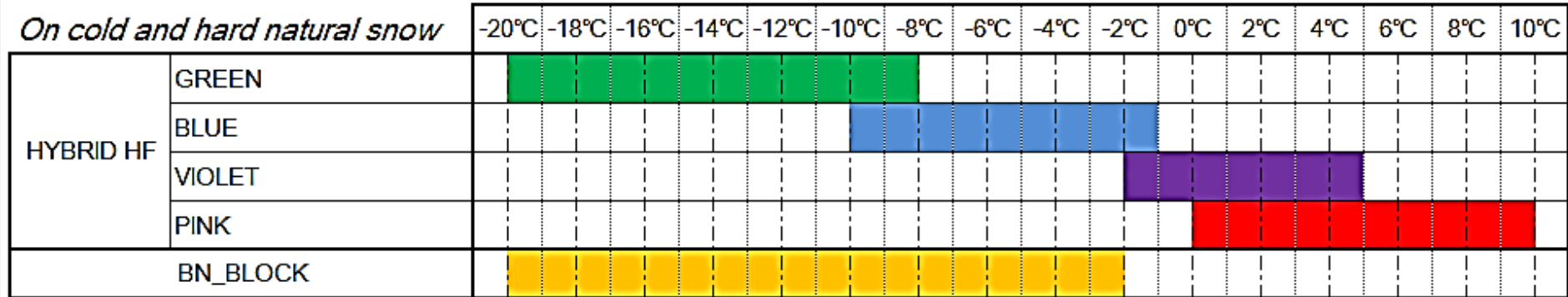
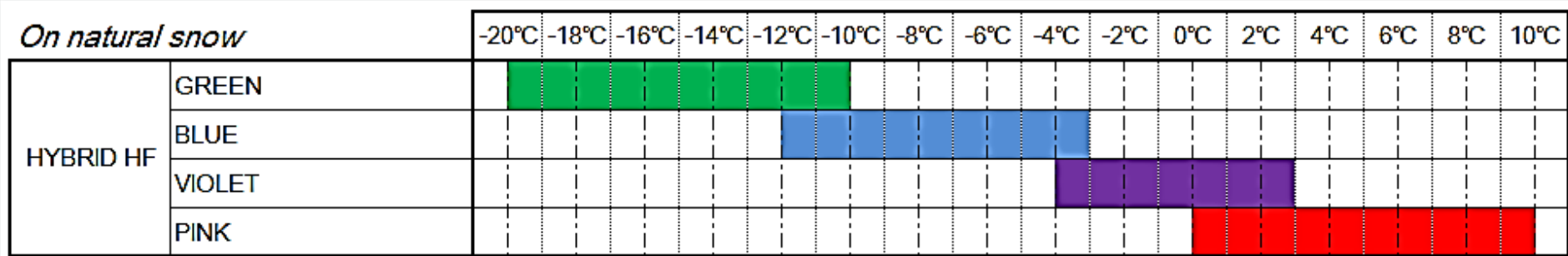


Product Number: SW2125  
Product Name: Kassoh VIOLET (50g)



Product Number: SW2126  
Product Name: Kassoh PINK (50g)

# Usage of HYBRID HF Series



# 5. EXTRA BASE Series/ CH GRIDE WAX

## EXTRA BASE WAX ( CH Wax )

<p><b>-20°C ↔ -10°C</b> Cold Fresh Snow, Dry Snow Base wax for AXF and Kassoh series</p>	<p><b>-12°C ↔ -3°C</b> For All Snow Types Base wax for AXF and Kassoh series and for base care</p>	<p><b>-4°C ↔ +3°C</b> For All Snow Types Base wax for AXF and Kassoh series and for base care</p>	<p><b>0°C ↔ +10°C</b> Very Humid and Wet Snow Base wax for AXF and Kassoh series and for base care Also can be used for cleaning</p>
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 <p>Product Number: SW2073 Product Name: EXTRA BASE GREEN (100g)</p>	 <p>Product Number: SW2074 Product Name: EXTRA BASE BLUE (100g)</p>	 <p>Product Number: SW2075 Product Name: EXTRA BASE VIOLET (100g)</p>	 <p>Product Number: SW2076 Product Name: EXTRA BASE PINK (100g)</p>
 <p>Product Number: SW2077 Product Name: EXTRA BASE GREEN 200 (200g)</p>	 <p>Product Number: SW2078 Product Name: EXTRA BASE BLUE 200 (200g)</p>	 <p>Product Number: SW2079 Product Name: EXTRA BASE VIOLET 200 (200g)</p>	 <p>Product Number: SW2080 Product Name: EXTRA BASE PINK 200 (200g)</p>
 <p>Product Number: SW2081 Product Name: EXTRA BASE GREEN 500 (500g)</p>	 <p>Product Number: SW2082 Product Name: EXTRA BASE BLUE 500 (500g)</p>	 <p>Product Number: SW2081 Product Name: EXTRA BASE VIOLET 500 (500g)</p>	 <p>Product Number: SW2081 Product Name: EXTRA BASE PINK 500 (500g)</p>