




# WELCOME

## TO THE WORLD OF TCN

## DRY-BARRELING

### BK25 POLISHING

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# PRESENTATION OF TCN PRODUCTS



For more than 60 years, TCN offers the full range of the polishing process:

- **polishing pastes of varying granularities:** grinding, smoothing, polishing and brightening pastes, to allow a perfect finish with several successive steps.
- **various pegs:** the choice of size, shape, material, and quality of the pegs is an essential element to reach a good final result.
- **detergents:** to remove oils and grease from the surface of polished parts.

Designed by TCN and manufactured in our workshops in France, our pastes are packaged in metal pails of 20 kgs. They allow to reach a perfect finish on plastic items.

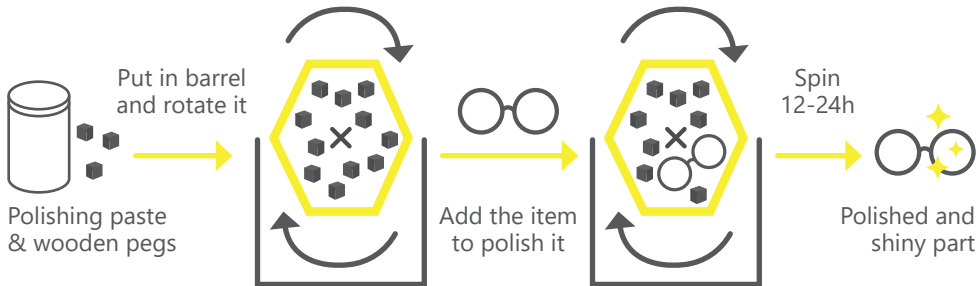


CSR REPORT



# THE DRY-BARRELING PROCESS

## Polishing schema

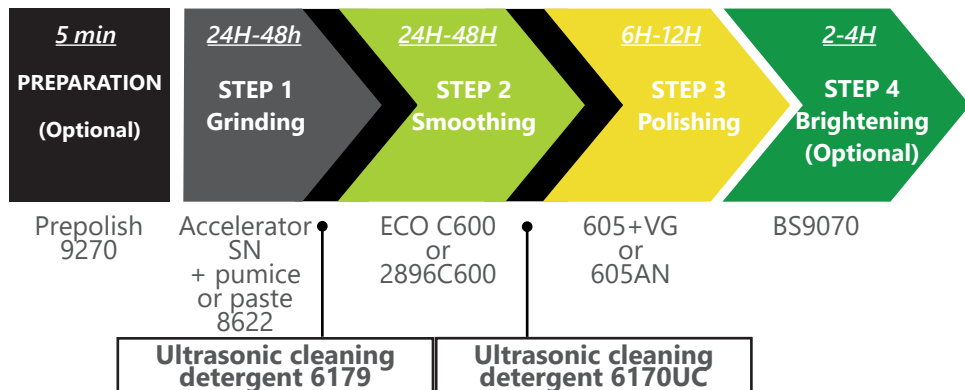


The process of dry-barreling involves putting items to be polished in bulk into rotating barrels. These barrels contain small wooden, or nylon pegs coated with a specific abrasive paste.

When the barrels rotate, the pieces are subjected to continuous friction movement against the pegs, which polish them. Several successive polishing steps with the appropriate polishing paste allow to eliminate the surface defects of the parts (jointing surfaces, scratches...) to obtain satin or glossy finishes.

It is a simple, convenient, and cost-effective technology for surface treatment of small pieces made of plastic materials, natural materials, and hard metals.

## A standard polishing process on cellulose acetate:



## Prepolish 9270

Liquid, ready to use, technical solvent

### PROCESS:

Immerse the items to be polished in prepolish 9270 for a few seconds, leave to dry and then start the grinding step.

### BENEFITS:



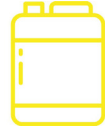
TIME SAVER



EASY TO USE



NO TOXIC



## »» STEP 1: GRINDING

The grinding operation can be done in different ways of which:

**Accelerator SN**  
+  
**pumice**  
**in powder**  
**form**

**or**

### **Grinding Paste** **8622**

Suitable on soft plastic material to remove surface defects and also particularly effective on hard plastic materials to prepare the surface before varnishing

## STEP 2: SMOOTHING

### Paste ECO C600

Is the perfect option for those looking to combine performance and environmental responsibility.



Made of « green » ingredients, it doesn't contain any classified substances. **It is silica-free, making it a safe choice for the health.**



**ECO C600 is also environmentally friendly** as it is made with plant-based solvents and produces no emissions of petrochemical solvents into the atmosphere.




**In addition, it has an abrasive quality** identical to our best seller 2896C600 polishing paste.





**Made in France in our workshop** for those who want to combine professional performance and respect for the environment.

Paste 2896C600 is our historic best-seller, presenting an exceptional performance on dry-barreling of cellulose acetate and cellulose propanoate.

### DESCRIPTION

Color: 

Brilliance: 

Abrasiveness: 

## STEP 3: POLISHING

### Paste 605+VG

Our polishing pastes 605+VG and 605AN contain very fine abrasives that allow for ultra-shiny finishes by wearing down the surface of the pieces rather than waxing them.



For anyone looking to achieve the highest quality finish: Polishing past 605+VG presents excellent performance, **it ensures an ultimate gloss.**



**Suitable on plastic and metal, the versatile paste**

delivers a mirror-polish for high-end parts made of acetate cellulose, polyester, Plexiglas®, precious metal...



**Made in France in our workshop**

for those who want to combine professional performance and respect for the environment.

**Paste 605+VG**  
without greasy protection film

#### DESCRIPTION

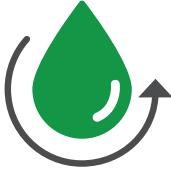
Color:   
Brilliance:   
Abrasive: 

**Paste 605AN**  
with a greasy protection film

#### DESCRIPTION

Color:   
Brilliance:   
Abrasive: 

## STEP 4: BRIGHTENING (OPTIONAL)



### BS9070 brightening paste


Contains self-polishing vegetable waxes which allow a perfect finish: gloss and color depth on parts after a polishing or after a dyeing operation.

**Its formulation brings waterproof and anti-fouling protection to treated items.**

#### DESCRIPTION

Color: 

Brilliance: 

Abrasiveness: 







## COMPONENTS FOR BARRELING

### Wooden and nylon pegs for dry-barreling.

Pegs of different material (nylon or material wood), shapes and sizes are suitable for each step of dry-polishing of plastic items.

- ✓ Guaranteed to last long.
- ✓ Pollution-free.
- ✓ Natural wood: beech or birch.
- ✓ Not treated wood.
- ✓ Ready to be coated with our polishing products.



				
<b>PRODUCT</b>	<b>Wooden cube</b>	<b>Wooden lozenge</b>	<b>Nylon lozenge</b>	<b>Wooden point</b>
<b>APPROXIMATE SIZE</b>	<ul style="list-style-type: none"> <li>• 6x6x6</li> <li>• 8x8x8</li> <li>• 10x10x10</li> <li>• 12x12x12</li> </ul>	<ul style="list-style-type: none"> <li>• 6x20</li> <li>• 8x24</li> <li>• 10x26</li> </ul>	<ul style="list-style-type: none"> <li>• 8x21</li> </ul>	<ul style="list-style-type: none"> <li>• 5x25</li> </ul>
<b>PACKAGING</b>	<b>Packed by 25 or 30 kg bag</b>			
<b>MARKET</b>	<b>Eyewear, garment accessories, jewelry, hand made pieces</b>			

## CLEANING AND DEGREASING

### 6179 detergent and 6170UC detergent

At each step of the polishing process, our detergents allow the essential cleaning and degreasing by ultrasound.



# APPLICATIONS

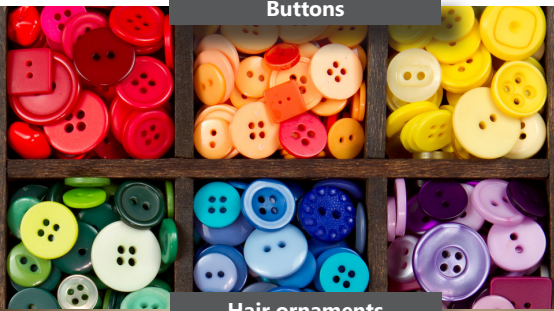
Eyewear frames



Fashion accessories



Buttons



Mediator



Hair ornaments



Design and art



Clothing accessories



Automotive



## FAQ

### **Is it necessary to clean the parts between each polishing step?**

Yes, ultrasonic cleaning required between each step. This prevents the barrels from clogging and keeps each compartment clean, ensuring the quality of the polish.

### **Does the pastes leave a residue greasy at the end of the polishing cycle?**

It depends on the paste used. For example, paste 605+VG provides a direct glossy finish and leaves no residue on the surface.

### **When and how to refill the polishing paste compartments?**

As a general rule, it is recommended to refill each compartment with paste after each polishing step. The ideal amount is equivalent to the volume of a tennis ball.

### **My pieces have an «orange peel» effect, what is the reason for this?**

This defect is often linked to an insufficient half-sanding step. Check:

1. the cycle time is sufficient,
2. the compartment is well filled with pegs,
3. that the speed of rotation is not excessive.

### **How to store polishing pastes?**

Pastes should be stored away from heat and moisture. Occasional mechanical stirring is recommended to re-homogenize the product, especially after prolonged storage.

### **Does your pastes comply with regulations?**

Yes, all our last pastes complies with the regulations in force. Our news eco-designed polishing pastes are free of controversial substances, including crystalline silica. Our formulations even anticipate future regulatory changes.

# OUR SERVICES

**We accompany you**  
in the implementation  
of your polishing  
process



**we offer quality  
products  
in a short time**  
Manufactured  
in our workshop  
in France and without  
intermediaries,

**We provide you**  
with technical  
assistance

**We are available**  
for process start-up  
and technical  
support



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**To test our polishing products,  
please contact us at:**  
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Techniques Chimiques Nouvelles

# A Colorful World

Please get in touch  
with us.

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System



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