Polishing Cloth

Introduction

Trojan polishing cloths are made of fabrics with strict quality control. Trojan 's laboratory has gone through a lot of experimental verification to find the best production parameters to ensure that our polishing cloths can provide high-efficiency and high-quality polishing while also being durable. We offer adhesive backed polishing cloths and disk polishing cloths.





NL-CP



GF-JP



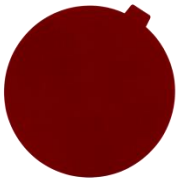
SC-JP



YS-JP



CS-JP



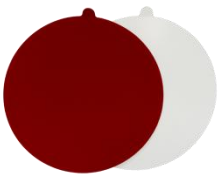
SR-JP



ET-JP



YR-JP



Final-Red



ZN-ZP

Technical Specifications

	Model	Scope of Application	Specification (mm)
Rough Polishing	NL-CP	White chemical fiber, suitable for rough polishing of ferrous metals, it is recommended to use Trojan 6~15μm diamond suspension or diamond spray.	200mm(8 inch) 250mm(10 inch) 300mm(12 inch)
	GF-JP	Suitable for medium or rough polishing of ferrous metals, it is recommended to use Trojan 3~9μm diamond suspension or diamond spray.	
Medium Polishing	SC-JP	It is suitable for fine polishing of cemented carbide and ferrous metals. It is recommended to use Trojan 0.5~6.0μm diamond suspension.	
	YS-JP	It is suitable for fine polishing or medium polishing of copper, aluminum, tin and soft ferrous metals. It is recommended to use Trojan 1~6μm diamond suspension and diamond spray.	
	CS-JP	It is suitable for medium polishing and fine polishing of ferrous metals, non-ferrous metals, coatings and plastics. It is recommended to use Trojan 0.5~6.0μm diamond suspension.	
	SR-JP	For fine or final polishing of most materials, it is recommended to use Trojan 0.3~3.0μm alumina or diamond suspension.	
Fine Polishing	ET-JP	For fine polishing of soft materials such as copper, tin, resin, PCB, SMT, semiconductor, it is recommended to use Trojan 0.05~3.0μm alumina suspension or alumina polishing powder.	
	YR-JP	It is suitable for fine polishing of ferrous and non-ferrous metals, composite materials, polymers, cast iron, ceramics, carbides and PCBs. It is recommended to use Trojan 0.05~3.0μm diamond polishing fluid, alumina polishing fluid or alumina polishing powder.	
	Final-Red	Widely used in the precision polishing of electronic components, especially for the preparation of SEM or TEM evaluation materials, it is recommended to be used with Trojan diamond (below 3 μm) final polishing fluid or alumina suspension.	
	ZN-ZP	Black damping cloth, used for final polishing of most materials, it is recommended to use Trojan 0.02~1μm silica or alumina polishing fluid.	

Instructions

(1) Make sure the chassis is level. This can be checked using a tool with a straight edge. Dents on the chassis that exceed 0.01mm should be removed.

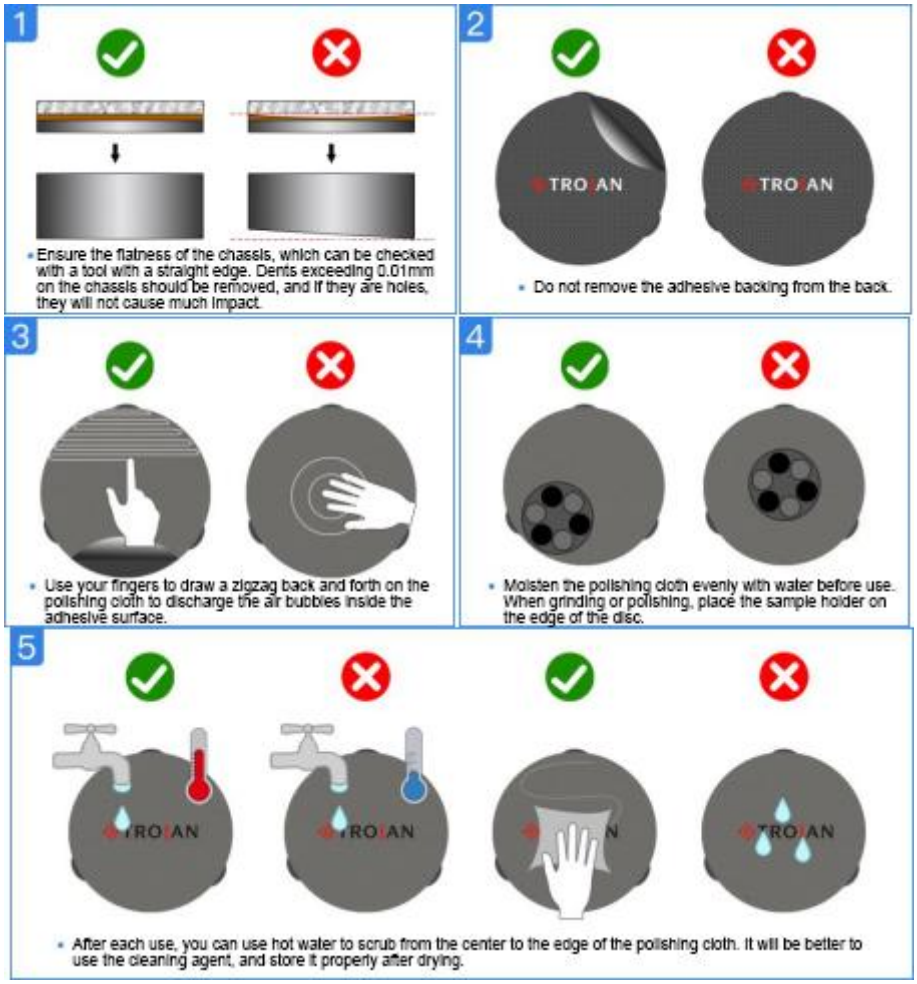
(2) When pasting, use your fingers to draw a "zigzag" back and forth on the polishing cloth to discharge the air bubbles inside the adhesive surface.

(3) Wet the polishing cloth evenly with water before use. When grinding or polishing, place the sample holder outside the edge of the disc.

(4) Instructions for use：

Diamond/Lubricant: Before use, diamond particles and a sufficient amount of lubricant should be dripped on the polishing cloth. The polishing cloth needs to be moistened.

Alumina/Silica: The polishing cloth needs to be dampened with water before use. Apply a small amount of alumina/silica polishing solution to the polishing cloth. The water will help disperse the surface-dissolving solution so that it can be evenly distributed over the surface of the polishing cloth.



Precautions

1. The damaged polishing cloth should be discarded.

2. The polishing cloth should be moistened with water before use, and then sprayed with polishing liquid for polishing.

3. Clean the polishing cloth：

a) **Diamond compound/suspension/spray：**

Diamond polishing cloths do not need to be used with water, and since most diamond products do not crystallize, cleaning is only necessary if excessive impurities have accumulated on the edges of the polishing cloth or if the surface of the polishing cloth is heavily soiled. The polishing cloth can be cleaned with soap and water, and a brush or flat tool can be used to remove impurities from the cloth fibers on the polishing cloth.

b) **Fine polishing powder, polishing slurry, polishing suspension：**

Most polishing suspensions are water-based, and over time the suspension will have an evaporation effect and the abrasive contained in the suspension will become crystalline. Therefore, it is recommended to rinse the polishing cloth with clean water after use to prevent the abrasive from drying out on the polishing cloth.

4. Life expectancy：

Signs that polishing cloths may need to be replaced include：

Visible damage and deterioration of polishing cloth fabric

The polishing cloth can no longer provide the intended polishing effect

5. The following factors may affect the service life of the polishing cloth:

The hardness of the sample; the surface of the sample; the pressure used for polishing; the type of mounting material, polishing time; polishing multiple samples at a time; the use of polishing lubricant; the type and size of abrasive; the speed of the pressure plate and pressure head; Storage and maintenance of equipment; types of polishing cloths.

6. Sample cleaning：

In order to remove debris and abrasive particles generated after grinding, the work plate needs to be rinsed with clean water and wiped clean. Samples and fixtures need to be washed with organic soap and alcohol, and dried with a compressed air machine. This will reduce the scratches on the surface of the specimen caused by the abrasive not being rinsed off during the grinding and polishing process.

Storage

After using the polishing cloth, use a brush to clean it from the center of the polishing cloth to the outside. Make sure to clean the remaining polishing agent and drain it. Store it in a cool and ventilated place, avoiding direct sunlight.