



NEW

MECHANICAL PROTECTION ESD GLOVES

Especially designed
for protection of electronic device
from **ElectroStatic Discharge (ESD)**

Optimal dexterity, comfort and
durability while dissipating static
electricity in precise and
repetitive tasks

Touch



Screen



ULTRANE 524



ULTRANE 544

BACKGROUND

In some critical production environments, electrostatic discharges can damage sensitive electronic device. Since human beings are electricity conductive, operators must wear ESD protective gloves for handling ESD devices.

What is an electrostatic phenomena?

If two materials are brought into contact and rubbed, there is an exchange of electric charges (static electricity).

When those charges are not dissipated, then they accumulate and electrostatic discharges can occur.

Why are dissipative gloves necessary?

A dissipative material has the ability not to accumulate electrostatic charges. It dissipates them. Dissipative gloves are necessary to avoid electrostatic discharge.

Where do electrostatic discharges can occur?



EPA (ESD protected area) or ESD protected zone.

Main industries: electronics, automotive, consumer products.

ATEX zone (EXplosive ATmosphere).

Main industries: chemical, pharmaceutical, agricultural (grain silo).

Which standard deals with electrostatic properties?

	GLOVES STANDARDS REQUIREMENT	TEST METHOD	PICTOGRAM
Protection of Electronic devices from ElectroStatic Discharge (ESD)	No standard	No test method	No pictogram
ATEX environment	EN 16350 Vertical resistance: $<10^8 \Omega$ at 25% relative humidity <i>*The tests must be performed on 5 samples which must all pass the limit of vertical resistance</i>	EN 1149-2	Introduced in EN ISO 21420: 2020  

MAPA PROFESSIONAL POSITION

Working in ATEX zones or handling electronic devices, both areas have the same need for suitable gloves : they must not accumulate charges and they must be dissipative.

As until now there is no standard established for ESD gloves, at MAPA PROFESSIONAL we decided to refer to the EN 16350 standard (ATEX gloves) to evaluate the dissipative properties of our gloves. This standard is very strict, as a consequence a glove complying with the EN 16350 standard will be suitable for handling electronic devices.



Wearing gloves alone does not prevent from electrostatic discharges. The worker must wear suitable dissipative clothing and footwear to be permanently earthed.

MAPA SOLUTION ULTRANE 524 / 544

ULTRANE 524



ULTRANE 544



Protection of electronic device from ElectroStatic Discharge (ESD)

No risk of damage of pieces handled



Touch screen

Ultrane 524 : thumb and index
Ultrane 544 : full Touch screen



High Comfort & Breathability

Excellent dexterity at fingertips
Second skin effect (thin liner)
Suppleness & flexibility
Breathability



Additional key features

No pollution thanks to light colour to spot dirtiness
Washable 1 time at 40°
Silicon Free
Ultrane 544 : DMF Free



ULTRANE 544



ULTRANE 524

EXAMPLES OF APPLICATION



Automotive OEM
Assembly line / Electric card



White Appliances
Handling / Mounting of thin and small part
Assembly line



Automotive Tier1
Assembly line / Electric Motor





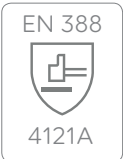


FOR INDUSTRIES SUCH AS

Automotive industry
Aeronautics industry

White appliances
Electronics industry

PRODUCT SPECIFICATION

Products specifically developed to dissipate electrostatic charges for precise and repetitive tasks where **dexterity, comfort and durability** are required

Reference	ULTRANE 524	ULTRANE 544
		
Standards & labels	 	  
Interior and exterior finish	Seamless textile with conductive fiber Polyurethane coating on palm and fingers Knitted wrist	Seamless textile with conductive fiber Foam nitrile conductive coating on palm and fingers Knitted wrist
Gauge	18	15
Length	22 - 27 cm	
Size	6 7 8 9 10 11	
Packaging	1 pair individually packed – 1 masterbag of 12 pairs – 96 pairs by carton	
Washable	1 time at 40°C	
Advantages	Protection of electronic device from ESD 524 : Touch screen at thumb and index / 544 : Full Touch screen Comfort suppleness and dexterity Silicon Free 544 : DMF Free	
Industries	Automotive industry / Aeronautic industry / White appliances / Electronics industry	

There are a variety of risks depending upon the environment.
Mapa Professional provides you with a complete range of protective gloves.