NEW

MECHANICAL PROTECTION
ESD GLOVE

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

A solution
for every hand
that works

MAPA®
PROFESSIONAL

mapa-pro.com

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 are 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 **E**lectro**S**tatic **D**ischarge (ESD)	**No standard**	**No test method**	**No pictogram**
ATEX environment	**EN 16350** **Vertical resistance: <10^8 Ω at 25% relative humidity** **The tests must be performed on 5 samples which must all pass the limit of vertical resistance*	**EN 1149-2**	Introduced in EN ISO 21420: 2020 NEW EN 16350

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

EN 388
2X20A

EN 16350

Protection of electronic device from ElectroStatic Discharge (ESD)
No risk of damage of pieces handled

Touch screen at thumb and index

High Comfort & Breathability
Excellent dexterity at fingertips
Second skin effect (gauge 18)
Suppleness & flexibility
Breathability

Additional key features
No pollution thanks to light colour to spot dirtiness
Washable 1 time at 40°
Silicon Free

EXAMPLES OF APPLICATION

Automotive OEM
Assembly line Electric card

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

FOR INDUSTRIES SUCH AS

Automotive industry
Aeronautics industry
White appliances
Electronics industry
Optics

PRODUCT **SPECIFICATION**

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

Reference	ULTRANE 524 
Standards & labels	EN 388 2X20A; EN 16350
Interior and exterior finish	Seamless textile with conductive fiber Polyurethane coating on palm and fingers Knitted wrist
Gauge	18
Length	22 - 27 cm
Size	6 7 8 9 10 11
Packaging	1 masterbag of 12 pairs - 96 pairs by carton
Washable	1 time at 40°C
Advantages	Protection of electronic device from ESD Touch screen (thumb/index) Comfort suppleness and dexterity Silicon Free
Applications	Automotive industry / Aeronautic industry / White appliances / Electronics industry / Optics

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