

Seminar

Ritukh Safety Technologies Ltd.

Tuesday 23rd February 2010

טכנולוגיות בטיחות



Mapa Professionnel,

For the job in hand,
there is a Mapa glove

MAPA[®]
PROFESSIONNEL

Our mission



... provides solutions wherever hand protection is required

... has perfected their products and increased their innovations

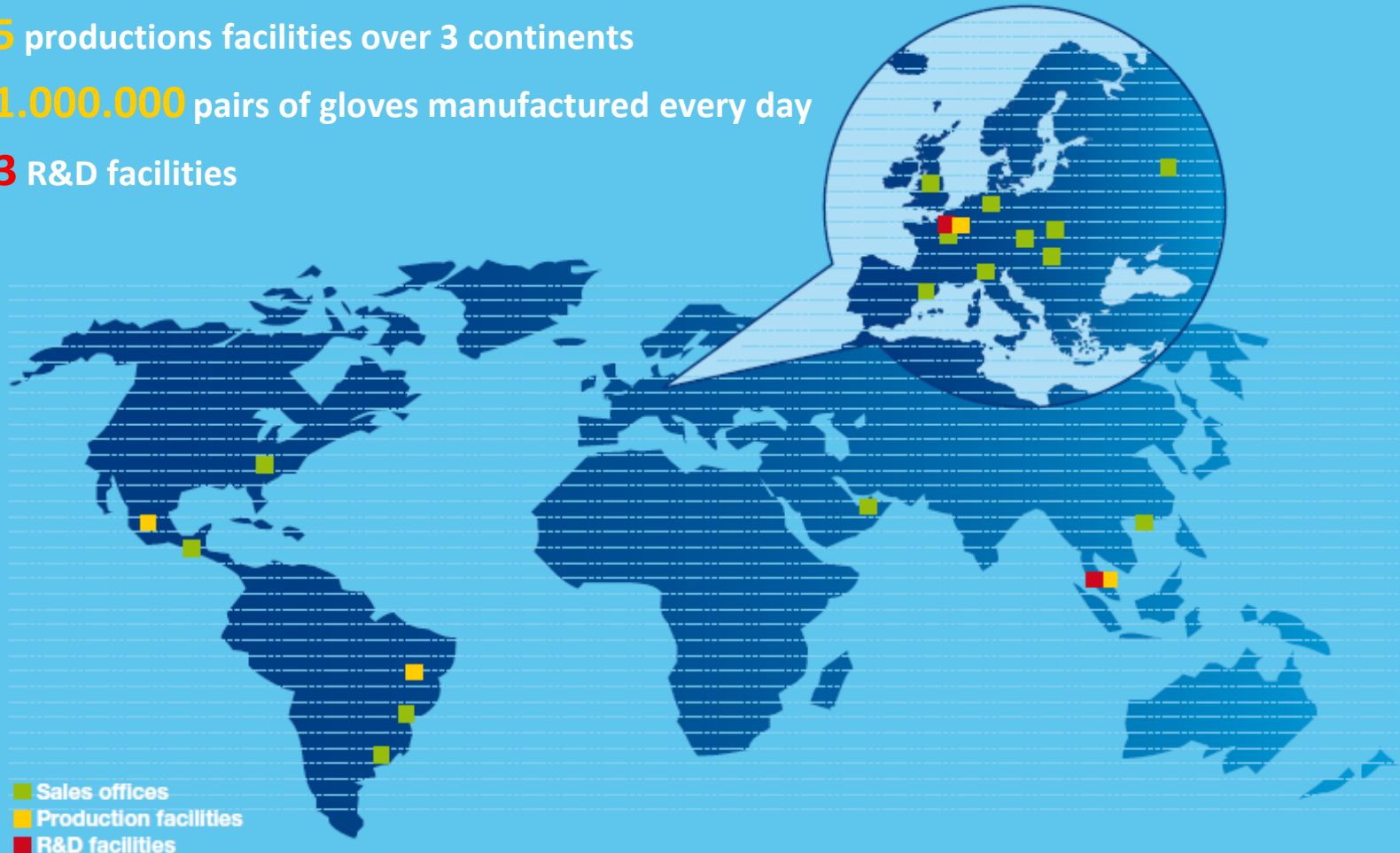
... overcomes the constraints of the professional and industrial world, as well as to meet increasing demands for protection and comfort

Mapa's evolution

- 1948 Creation of Mapa
- 1957 Manufacture of the 1st flock-lined glove
- 1975 Manufacture of the 1st textile support glove
- 1982 Start-up of production activities in Asia
- 1990 Creation of Mapa Professionnel
- 1997 Start-up of production activities in Mexico
- 2006 Launch of the 1st biological protection glove

Mapa Professionnel into the world

- 90 cross-out countries in which Mapa Professionnel gloves are sold
- 5 productions facilities over 3 continents
- 1.000.000 pairs of gloves manufactured every day
- 3 R&D facilities





Range Presentation

Disposable Disposable gloves to protect hands and products during delicate work



Liquidproof Protection For prolonged contact with mildly aggressive liquids



Chemical Protection A solution for every situation, due to a complete range classified by polymer



Handling Protection To resist injuries endured during general handling work



Cut Protection Solutions adapted to all hazardous cutting situations



Thermal Protection For low temperature environments and hot / cold contacts



Biological Protection The solution for active protection against the risk of viral contamination

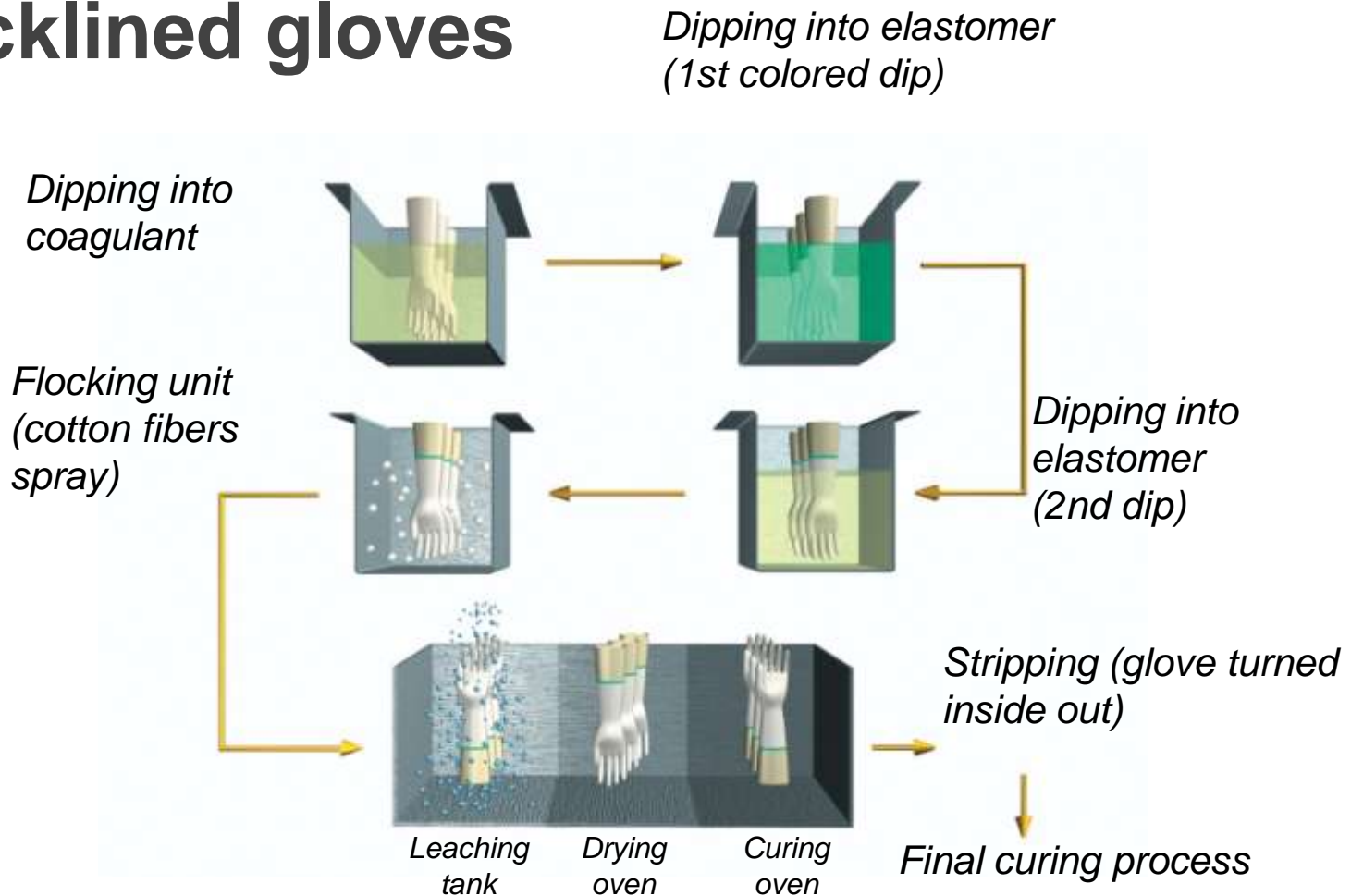


Critical Environments Specific solutions for controlling the environment in clean rooms or containment buildings



Manufacturing processes

Flocklined gloves



Manufacturing processes

Knitlined gloves

The fabric liner is placed over the mould

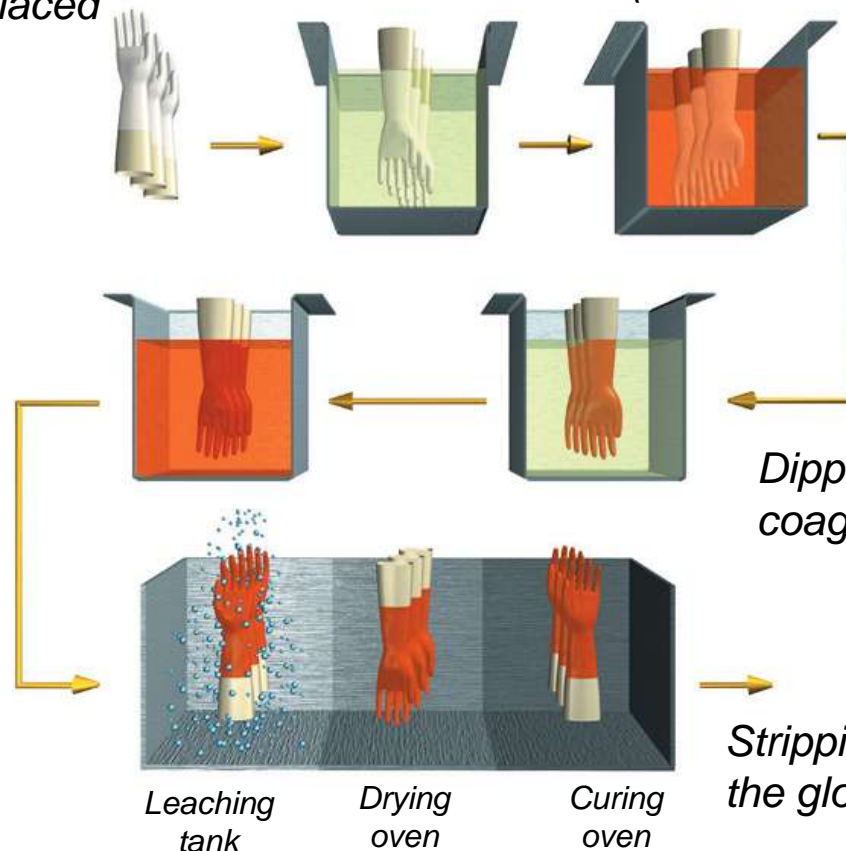
Dipping into elastomer (2nd dip)

Dipping into coagulant

Dipping into elastomer (1st colored dip)

Dipping into coagulant

Stripping by sliding the glove off



Leaching
tank

Drying
oven

Curing
oven

Mapa Chemicals

Mechanical and chemical properties

	Natural latex e.g. Industrial 299	Neoprene e.g. Chem-Ply 407	Nitrile e.g. Ultranitril 492	PVC e.g. Telsol 361	Fluoroelastomer e.g. Fluonit 468	Mapa PVA Technology e.g. TopChem 345
Elasticity and flexibility	=====	=====	=====	=====	=====	=====
Abrasion	=====	=====	=====	=====	=====	=====
Cuts	=====	=====	=====	=====	=====	=====
Tears	=====	=====	=====	=====	=====	=====
Perforation	=====	=====	=====	=====	=====	=====
Acids	=====	=====	=====	=====	=====	=====
Bases	=====	=====	=====	=====	=====	=====
Oils and fats	=====	=====	=====	=====	=====	=====
Hydrocarbons	=====	=====	=====	=====	=====	=====
Aromatic solvents (styrene...)	=====	=====	=====	=====	=====	=====
Chlorine based solvents (perchloroethylene...)	=====	=====	=====	=====	=====	=====
Ketone solvents (acetone...)	=====	=====	=====	=====	=====	=====
Acetates (butyl acetate ...)	=====	=====	=====	=====	=====	=====
Glycol ethers (methoxypropanol)	=====	=====	=====	=====	=====	=====

These tables provide general indications. For more detailed information, consult the Mapa Professionnel technical documentation.
The longer the line, the greater the resistance to the hazard.

Online Chemical Resistance Guide : www.mapachemicals.com

Mapa Chemicals

Advantages and limitations of materials

	Natural latex e.g. Industrial 299	Neoprene e.g. Chem-Ply 407	Nitrile e.g. Ultranitril 492	PVC e.g. Telsol 361	Fluoroelastomer e.g. Fluonit 468	Mapa PVA Technology e.g. TopChem 345
Advantages	Excellent flexibility and tear resistance. Good resistance to many acids and ketones.	Versatile chemical resistance: acids, aliphatic solvents. Good resistance to sunlight and ozone.	Very good abrasion and perforation resistance. Very good resistance to hydrocarbon derivatives.	Good resistance to acids and to bases.	Excellent resistance to aliphatic, aromatic and chlorine based solvents.	Excellent resistance to all solvents and their mixtures.
Limitations	Prevent contact with oils, fats and hydrocarbon derivatives. Natural latex proteins may cause allergic reactions.	Avoid contact with chlorinated and aromatic solvents.	Avoid contact with solvents containing ketones and nitrogen based organic chemicals.	Weak mechanical resistance. Avoid contact with solvents containing ketones, aromatic and chlorine based solvents.	Avoid contact with ketones and acetates.	Avoid continuous prolonged contact with water-based products.

Product Zoom

Optinit 472

Chemical Protection > Nitrile

SPECIFIC ADVANTAGES

- Fingertip precision for light chemical protection
- Freedom of movement and excellent sensivity, due to the gloves reduced thickness
- Chlorinated finish for better protection

APPLICATIONS

- Handling and assembly of small oily parts
- Machining parts using cutting oil
- Precision assembly
- Spray-painting



3001

Product Zoom

Stansolv AK-22 381

Chemical Protection > Nitrile

SPECIFIC ADVANTAGES

- Maximum comfort for standard chemical protection
- Extremely supple, due to the unique Mapa Professionnel multi-layer process
- Embossed texture for better grip of wet objects

APPLICATIONS

- Automotive assembly
- Part degreasing / surface treatment
- Chemical product blending
- Machine maintenance



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Product Zoom

Ultranitril Plus 492

Chemical Protection > Nitrile

SPECIFIC ADVANTAGES

- Excellent mechanical resistance
- Dexterity and comfort, due to the anatomical shape and the quality of the flock-lining
- Longer service life

APPLICATIONS

- Machining parts using cutting oil
- Treating/degreasing metals with solvents
- Manufacture and application of paints and varnishes
- Maintenance



4101



AJKL



Product Zoom

StanZoil NK-22 382

Chemical Protection > Neoprene

SPECIFIC ADVANTAGES

- Maximum comfort for standard chemical protection
- Extremely supple, due to the unique Mapa Professionnel multi-layer process
- Embossed texture for better grip of wet objects

APPLICATIONS

- Engine part assembly
- Surface treatment
- Chemical product blending
- Machine maintenance



2121



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Product Zoom

Butoflex 650

Chemical Protection > Butyl

SPECIFIC ADVANTAGES

- Ultimate specific chemical resistance
- Exceptional comfort
- First butyl glove with a fabric inner lining
- Unrivalled flexibility and dexterity

APPLICATIONS

- Formulation paints, varnishes, resins and inks
- Handling and repackaging chemicals
- Handling in laboratories
- Metal treatment and degreasing



1122



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Product Zoom

TopChem 345 (Exclusive Mapa Professionnel product)

Chemical Protection > TopChem

SPECIFIC ADVANTAGES

- The widest range of protection on the market
- Maximum resistance and long service life
- High mechanical resistance and long service life
- Added comfort for long tasks

APPLICATIONS

- Chemical industry (manufacturing paints, etc.)
- Mechanical industry (metal degreasing and etching)
- Environment (Site pollution control)
- Civil defense (emergency interventions of chemical accidents)



3141



ABCDEFGH
IJKLM



X1XXXX

Product Zoom

Ultrane 548

Handling Protection > Precision work

SPECIFIC ADVANTAGES

- Optimal dexterity for light protection
- Thin glove: excellent sensitivity
- Absorption of perspiration
- Anatomical shape: close fit for precision

APPLICATIONS

- Intricate assembly
- Sorting small parts
- Fitting small screws and fasteners
- Assembly of electrical components



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Product Zoom

Ultrane 551

Handling protection > Precision work

SPECIFIC ADVANTAGES

- Excellent abrasion resistance: longer lasting
- Excellent tactile sensivity, due to reduced thickness
- Absorption of perspiration
- Added comfort

APPLICATIONS

- Intricate assembly
- Sorting small parts
- Fitting small screws and fasteners
- Electronic component assembly



4131

Product Zoom

Krytech Performance 576

Cut Protection > Precision work



SPECIFIC ADVANTAGES

- High performance protection for intricate handling
- Optimal cut resistance, level 5
- Excellent dexterity due to the precise fit
- Added comfort and flexibility

APPLICATIONS

- Handling metal parts
- Assembly of thin metal sheets
- Finishing sharp parts
- Post-injection material removal



4543

Product Zoom

Kronit-Proof 395 (Exclusive Mapa Professionnel product)

Cut Protection > Heavy-duty work 

SPECIFIC ADVANTAGES

- Total hand protection
- Entirely liquid-proof
- Proven long-lasting performance
- Good grip for picking up wet and slippery objects

APPLICATIONS

- Metal rolling, stamping and assembly
- Sheet metal
- Cutting aluminium strips
- Collection and sorting of industrial and household waste



4543



JKL



X2XXXX



Protection coupe

Informations générales

► Les tests de résistance à la coupe



Dans notre cas, l'indice est de 6,2.

Selon les correspondances indiquées dans le graphique ci-dessous, un indice de 6,2, c'est-à-dire, compris entre 5 et 10 correspond à un **niveau de performance 3.**



Protection coupe

Informations générales

► Les tests de résistance à la coupe

Indice

Echantillon

Niveau de performance





Le test de résistance à la coupe est effectué à l'aide d'une **lame circulaire tournant sur elle-même** qui, sous la pression d'une charge normalisée, se déplace sur la surface de l'échantillon à tester dans un mouvement de **va-et-vient** (1 cycle).

Pour prendre en compte l'affûtage de la lame, le test est effectué en parallèle sur une matière témoin.

Le **nombre de cycles nécessaires à la lame pour couper l'échantillon** est alors **mesuré**, il est comparé à celui obtenu avec la matière témoin.

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www.mapa-professionnel.info

www.mapachemicals.com

► Cut Protection Range

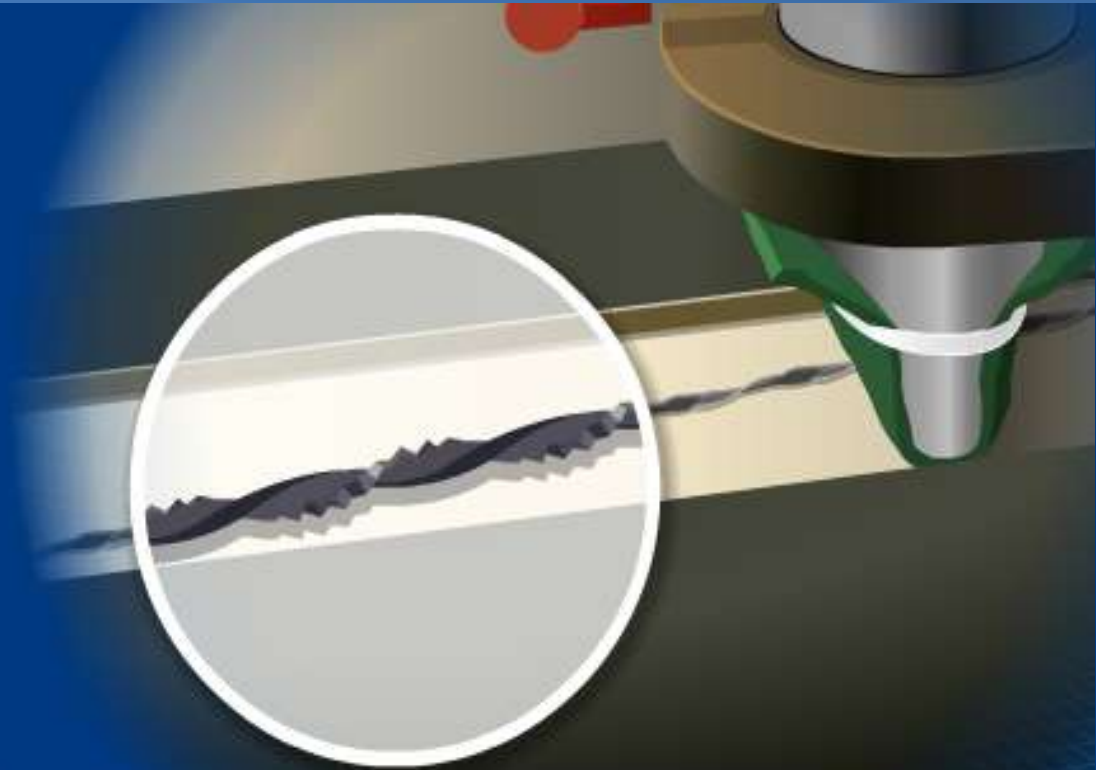
Highly recommended online training module will enable you to know everything about

- Cut Protection range
- Testing, legislation and standards
- Mapa Professionnel solutions



To get your personal login and password :

- Contact the Mapa Professionnel Sales Manager for your area



Mapa Chemicals



Online Chemical Resistance Guide : www.mapachemicals.com