



Protecting you & your processes

Trust the new **Tyvek® Labo** coverall from DuPont!

DuPont is launching a new garment to complete its trusted Tyvek® range with the **new Tyvek® Labo** coverall **especially designed for laboratories and the pharmaceutical industry.**



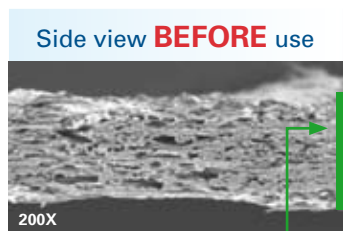
1. Protecting people

A different protection for you

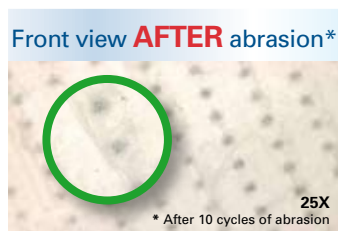
The barrier offered by Tyvek® is built into the fabric itself. This is one of the reasons why Tyvek® coveralls maintain protection levels throughout their usage.

The coveralls are antistatically treated on both sides, so that when they and the wearer are correctly earthed, electrostatic charges are dissipated.

Let's take a closer look at Tyvek®...



Inherent barrier throughout the whole material



After abrasion*, the barrier is still effective as it is inherent to the whole fabric

... and at microporous films



Thin barrier film



After abrasion*, the thin film barrier is destroyed → You are not protected anymore!

Particulate protection

Tyvek® fabric has an ultra-smooth surface discouraging solid particles from adhering.

TYVEK® fabric offers a 100% particle barrier to particles down to 1.0 micron*.

Water splash protection

Tyvek® has an ultra-smooth surface that repels low concentrated inorganic liquids and aerosols.

For protection against pressurized liquids, we would recommend you to wear a Tychem® C or F gown and other accessories over your Tyvek® Labo garment, as the garment alone may be unsuitable.

* according to CEN TC162WG3TG3 with aloxite particles.

2. Protecting the products & processes

People: the main source of contamination

Personnel are considered as one of the most critical sources of contamination. Every minute, humans shed an average of 100,000 particles (dead skin, hair, perspiration) from just standing, and this can rise to millions of particles depending on how much they are moving around.

Type of movement	Particle/min. (> 0.5 µm)
Sitting without moving	100 000
Moving hands, arms, head	500 000
Active hand/arm movement fast turning of the head	1 000 000
Standing up from a sitting position or vice versa	2 500 000
Rapid movement, climbing stairs etc.	110 000 000

Source: Clean Room Primer, 1985, J.J. Nappi Jr. Liberty Industries Inc. USA.

Tyvek® Labo: no fibres shedding, no quality issue, just cleanliness

→ Tyvek® is the ideal material for your application. By nature of **its continuous strong high density polyethylene fibres it does not shed fibres.**

Even after abrasion, the barrier is still effective, preventing therefore contamination routes film from the inside (body) to the outside.

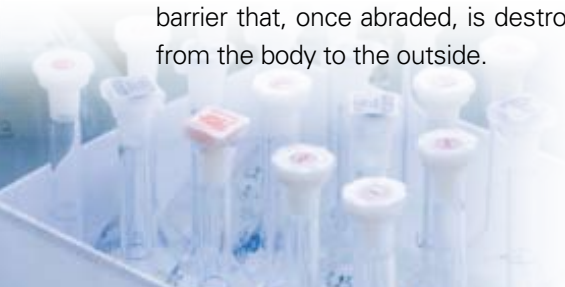
Tyvek® particle barrier efficiency

Parameter	Test conditions	Unit	Average result across 3 or 4 Tyvek® samples
Particle migration (Martindale)	500 cycles 9 kPa	Fibres/cm ²	< 50
Barrier efficiency against airborne particles (25 g/m ³)	> 0.3 µm / 15 min	%	> 99.2
	> 0.3 µm / 60 min	%	> 99.8

Attention: This data is only applicable to standard Tyvek® - not cleaned and/or sterilised.

Climatic conditions: 23 ± 1°C, 50 ± 5% RH. Source: ITV Test report Nr. E-0068-TT-07.

→ On the contrary, many of the materials available in the market depend on ultra-thin laminate barrier that, once abraded, is destroyed. This significantly increases the risk of contamination from the body to the outside.



3. The 'Feel good effect'

'The best idea is nothing if you cannot formulate it correctly'... the same is applicable to a suit: **turning your material into a smart design is critical!**





Our designers developed this suit after studying deeply body shapes evolution & typical workers conditions. They came up with the '**Feel good effect**': a tailored design that fits each part of the body perfectly while allowing great freedom of movement! The effect is also enhanced by the superior breathability of the fabric.



Check out the Tyvek® Labo design features for a 'Feel good effect':

Chemical Protective Coverall, Category III 

Suitable for classes ISO-7/ISO-8/ISO-9 (C/D)

 *	 *	 **	 ***
Type 5	Type 6	EN 1149-5: 2008	EN 1073-2

- 1 Shoe cover system attached to the suit with elastics
- 2 Slip-retardant soles for maximum safety when walking
- 3 Half-elasticated hood with tunnelled elastics for optimum facial fit
- 4 Tunnelled elastics at cuffs
- 5 Tyvek® zipper and zipper flap for increased protection of the wearer and process
- 6 Internal seams to help reduce contamination from the inside to the outside
- 7 New Tyvek® logo
- 8 Tunnelled elastics to help reduce the risk of contamination
- 9 Waist elastification

& Quality control specification extremely high for garment production.

* DuPont pictograms.

** White TYVEK® is antistatically treated on both surfaces, while coloured materials are only treated on the white side. Antistatic treatment is effective only when relative humidity is above 25%. For information on use in explosion risk zones, please contact the technical team, DuPont Techline.

*** Gives no protection against radioactive radiation.



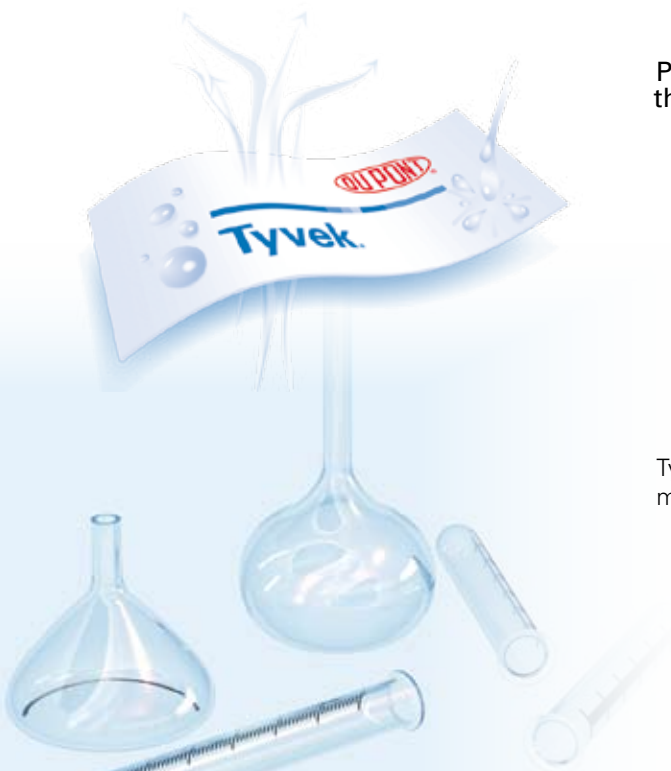
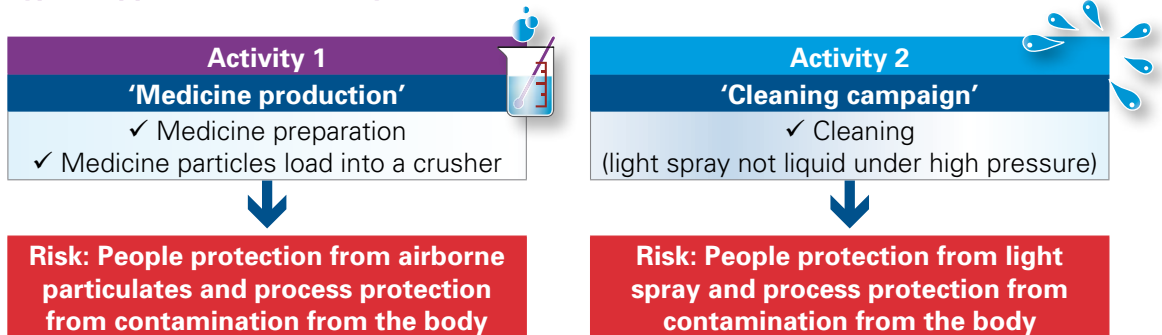
Because Tyvek® is different so is the effect...

Working in a clean environment such as pharmaceutical laboratories can be more complex in terms of protection as you are often confronted by 2 contamination issues:

Protecting the people & protecting the product or process.

Tyvek® unique properties answer this complexity by providing both protections.

Typical applications for the Tyvek® Labo coverall



Inside
Protecting
the people

Tyvek® Labo
model CHF7

Outside
Protecting
the processes



Innovative. Smart. Design. Tyvek® packaging dresses up!

The new Tyvek® Labo garment is packed up in the NEW innovative Tyvek® Packaging!
Check it out in detail on our www.dpp-europe.com website.

**Tyvek®
dresses up!**



NEW individual bag

With all practical user's instructions on the reverse!
(sizing chart selection tool, how to don and doff...)



Check out the
NEW Tyvek® Label!



NEW design
for the box!

Expertise in one call!



- Do you have a question regarding a product recommendation? Product use?
Or any other technical question?
- Please feel free to benefit from our **FREE technical service for your chemical protective clothing selection, the 'Techline'**, that will support you!
Tel: +352 621 164 043
Website: www.dpp-europe.com/technicalsupport

For more information on our support services:

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