# KIMTECH

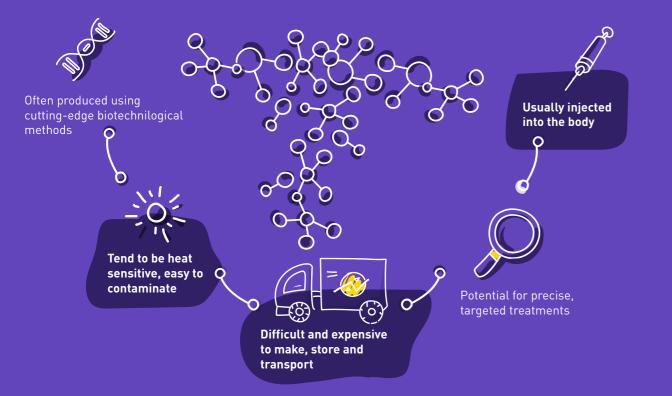
## Solutions for the Biotech industry

Coveralls and gloves engineered for **Protection, Compliance and Comfort** 



## What are biopharmaceuticals?

Complex medicines made from living cells or organisms



## What are some of the different types of biopharmaceuticals?

#### Cytokines

(impacts the interactions and communications between cells)

Monoclonal antibodies (fights disease like natural antibodies)

 $\langle \rangle$ Enzymes (speeds up biochemical reactions)

Immunomodulators (affects immune response)

## Two classes of biopharmaceuticals:

### Innovator biologics

An innovator biologic is the original version of biopharmaceutical treatment. It is approved based on, among other things, a full complement of safety and effectiveness data.

#### **Biosimilars**



A biosimilar is a biopharmaceutical that is highly similar to a specific innovator biologic. It has no clinically-meaningful differences in terms of safety, purity and potency.



#### **Biosimilars in numbers**

the first biosimilar is approved in Europe (a human growth hormone)

2006



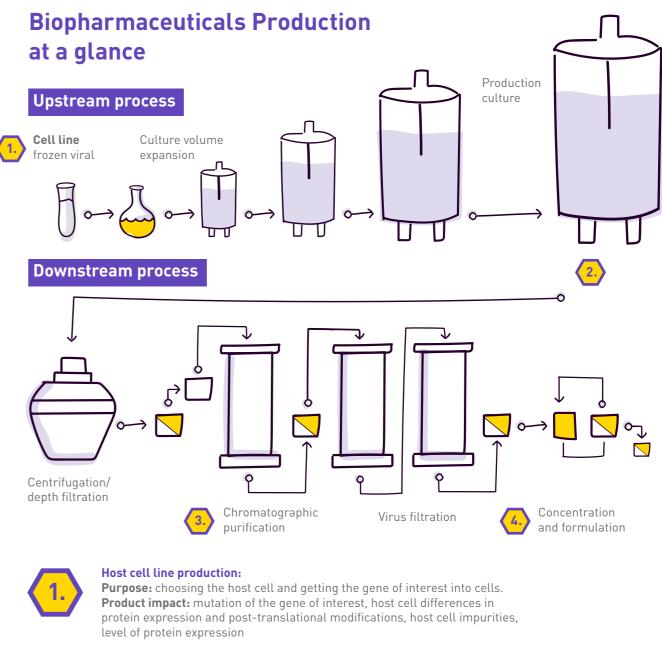
of all biosimilars are sold in Europe

## 59%

of all biologics are sold in the US, the world's biggest market



### average price difference between a biosimilar and a biologic



### Cell culture:

Purpose: production of the target protein under target growth conditions (temperature, media, pH, etc.) **Product impact:** process productivity, post-translational modification, product degradation and host cell impurity levels

## Purification:



**Purpose:** removal of host cell and impurities through centrifugation, filtration and chromatography using target conditions (temperature, pH, flow rates, and binding density, etc) **Product impact:** extent of removal of impurities or product modifications (wanted or unwanted), protein degradation/ aggregation, biological activity.

#### Formulation:

Purpose: final concentration and placing the protein in target buffer and container for long-term storage and shipment. Product impact: formulation of aggregates/ product degradation, impurities that can cause immune reactions, shelf life



the operator.

## Kimtech<sup>™</sup>: A flexible Head To Toe Solution for aseptic fill finish operations. **Compatible with industry preferred VHP** decontamination process



- Sanitizers
- Disinfectants
- Chemical & cytotoxic •

#### **Risk of Sterility Assurance**

High vacuum package system that guarantee sterility (SAL 10-6) at the point of use

#### **Risk of Contamination during donning**

Package folded system that reduce contamination risk during aseptic gowning, making aspectic gowning easier and less time consuming.

#### **Risk of Contamination in operations**

Materials that reduce contamination (Helmke Drum Test Cat 1) and assure optimal PFE and

Design that improve fit and comfort in aspectic operations to maintain ideal body conditions

Design that eliminates gaps and reduce risk of particle and bacteria contamination from

## **Important Considerations**

What was good enough in the past, will not be in the future - single use is now a trend Kimtech<sup>™</sup> single use solution makes your customer compliant at all levels from Global compliance to higher operator satisfaction & effectiveness

#### **Financial benefits**

- Cost impact per entry only when in use
- Cost impact on production only when the product is needed (holiday, sick leave = NO COST)
- No hidden costs and added flexibility
- Globally available
- Validation and audit results are shareable
- Qualification and Implementation support via APEX
- Working capital optimization through distributors

#### **RightCycle® Programme**

We are committed to reducing environmental impact at every stage in a product's life cycle, with the RightCycle<sup>™</sup> Programme previously hard-to-recycle products like nitrile gloves and cleanroom garments are turned into a variety of useful, eco-friendly products. (Available in UK, Ireland, Germany, Austria, Belgium and Spain)



#### **Operations benefits**

- Eliminate the risk for cross contamination
- PFE and BFE performances are consistent in use
- Reduce and manage the Risk for Sterility assurance
- Reduce and manage the risk for operator errors during aseptic donning
- Reduce and manage the risk for airborne and microbiological contamination during operations
- Address both risk for process, product and people
- Packaging is compatible with latest VHP decontamination processes
- Packaging in multiple of 25 is friendly for small and bigger size changing rooms ideal for the smallest number of entries and allow for scale up
- Distributor Partner can implement various solutions to guarantee availability and safety stocks
- Right Cycle Programme available in selected countries

#### APEX

APEX is our proven change management programme, engaging all stake holders to ensure a successful conversion to KCP products.

#### A - Assess

Understand your company, operating environment and challenges

#### P - Partner

Connect with the right stakeholders, develop a collaborative approach, determine what success looks like

#### E - Engage

Actively train employees, ensure they own and embrace the change

#### X - Execute

Ensure the change is properly understood, achieve your started goals

	Product Code	Size /Format	Total Case content	Material	Characteristics	ISO or Class	Regulatory	Chemical Splash Protection	Micro-organisms Protection
Sterile Cleanroom R	ange								
Kimtech™ Sterile Cleanroom	Gloves								
G3 Sterile Sterling™ Nitrile Gloves	11821 to 11828	6.0 to 10.0	300 pairs	Nitrile	slick - double donning	ISO 5 Class A/B	PPE Cat III	EN ISO 374-1 Type C (K)	EN ISO 374-5 Virus
G3 Sterile White Nitrile Gloves	HC61160 to HC61110	6.0 to 10.0	200 pairs	Nitrile	slick - double donning	ISO 5 Class A/B	PPE Cat III	EN ISO 374-1 Type C (K)	EN ISO 374-5 Virus
G3 Sterile Latex Gloves	HC1360S to HC1310S	6.0 to 10.0	200 pairs	Latex	slick - double donning	ISO 5 Class A/B	PPE Cat III	EN ISO 374-1 Type C (K)	EN ISO 374-5 Virus
Kimtech™ Sterile Cleanroom	Apparel								
A5 Sterile Cleanroom Coverall	88800 to 88806	S to 4XL	25 garments	SMS	vacuum packed	ISO 5 Class A/B	PPE Cat III	Туре 5 Туре 6	
A5 Sterile Cleanroom Hood with ties	25797	Universal	100 hoods	SMS	vacuum packed	ISO 5 Class A/B	PPE Cat III	Type 6 (PB)	
A5 Sterile Cleanroom Hood & Mask	36072	Universal	75 hoods	SMS	vacuum packed	ISO 5 Class A/B	PPE Cat III	Type 6 (PB)	
A5 Sterile Overboots with vinyl sole	12922 / 88808	S/M and univ.	100 pairs	SMS	vacuum packed	ISO 5 Class A/B	PPE Cat I		
A5 Sterile Overboots with wrap-around vinyl foot	31683 / 31696	S/M and univ.	100 pairs	SMS	vacuum packed	ISO 5 Class A/B	PPE Cat I		
A5 Sterile sleeves	36077	Length 45 cm	100 pairs	SMS	vacuum packed	ISO 5 Class A/B	PPE Cat I		
Kimtech™ Sterile Face Mask	5								
M3 Certified Sterile Pouch-Style Face Mask	62483	Width 25 cm	200 masks	PE <sup>[1]</sup> /[PE/ PET] <sup>[2]</sup> /PP <sup>[3]</sup>	with headbands	ISO 5 Class A/B			
M3 Certified Sterile Pleat-Style Face Mask	62467	Width 18 cm	200 masks	PE <sup>[1]</sup> /[PE/ PET] <sup>[2]</sup> /PP <sup>[3]</sup>	with ties	ISO 5 Class A/B			
M3 Certified Sterile Pleat-Style Face Mask	62470	Width 18 cm	200 masks	PE <sup>[1]</sup> /[PE/ PET] <sup>[2]</sup> /PP <sup>[3]</sup>	with earloops	ISO 5 Class A/B			
M3 Certified Sterile Pleat-Style Face Mask	62494	Width 23 cm	200 masks	PE <sup>[1]</sup> /[PE/ PET] <sup>[2]</sup> /PP <sup>[3]</sup>	with ties	ISO 5 Class A/B			
Non-Sterile Cleanroo	m Range								
Kimtech™ Cleanroom Gloves									
G3 White Nitrile Gloves	HC61010 to HC61014	XS to XL	1000 gloves	Nitrile	tacky	ISO 3 or higher Class C/D	PPE Cat III	EN ISO 374-1 Type C (K)	EN ISO 374-5 Virus
G3 NxT™ Nitrile Gloves	62990 to 62995	XS to XL	1000 gloves	Nitrile	slick - double donning	ISO 3 or higher Class C/D	PPE Cat III	EN ISO 374-1 Type C (K)	EN ISO 374-5 Virus
Kimtech™ Apparel									
A8 Particles Protection Coverall	47691 to 47697	S to 4XL	25 garments	SMS <sup>[4]</sup>	individually packed	ISO 6 or higher Class C/D	PPE Cat III	Туре 5 Туре 6	
A8 overshoes	39370 to 39372	S / Univ/ XL	300 overshoes	SMS <sup>[4]</sup>	fully coated	ISO 6 or higher Class C/D	PPE Cat I		
Kimtech™ Cleanroom Face M	lasks								
M3 Certified Pleated-Style Face Mask	62451	Width 23 cm	500 masks	PE <sup>[1]</sup> /[PE/ PET] <sup>[2]</sup> /PP <sup>[3]</sup>	with earloops	ISO 3 or higher Class C/D			
M3 Certified Pleated-Style Face Mask	62465	Width 18 cm	500 masks	PE <sup>[1]</sup> /[PE/ PET] <sup>[2]</sup> /PP <sup>[3]</sup>	with earloops	ISO 3 or higher Class C/D			
Laboratory Range									
Kimtech™ Laboratory Gloves									
Purple™ Nitrile Gloves	90625 to 90629	XS to XL	10 x 100 <sup>(5)</sup> gloves	Nitrile	textured fingertips	ISO 6 or higher Class C/D	PPE Cat III	EN ISO 374-1 Type B (JKT)	EN ISO 374-5 Virus
Purple™ Xtra™ Nitrile Gloves	97610 to 97614	XS to XL	10 x 50 gloves	Nitrile	textured fingertips	ISO 6 or higher Class C/D	PPE Cat III	EN ISO 374-1 Type B (JKT)	EN ISO 374-5 Virus

<sup>(1)</sup> PE: polyethylene
<sup>(2)</sup> PE/PET: polyethylene/ polyethylene terephtalate
<sup>(3)</sup> PP :polypropylene
<sup>(4)</sup> SMS : spunbond - meltblown- spunbond
<sup>(5)</sup> 10 x 90 for size XL

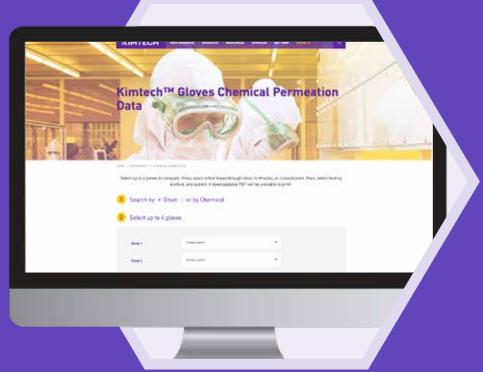


## **Chemical Permeation Data**

- Visit www.kimtech.eu, from the top menu select resources and then chemical permeation
- Select up to 4 gloves to compare or select a specific chemical. Select either breakthrough times in minutes, or classification.



### Submit and download your PDF



## For more information visit www.kimtech.eu

# For technical assistance contact us at kimtech.support@kcc.com

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