

AlphaTec® Product Guide

SIMPLER IS SMARTER SMARTER IS SAFER







PROVIDING MULTI-HAZARD CHEMICAL PROTECTION SOLUTIONS GLOBALLY

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The AlphaTec story

The AlphaTec brand was first launched in 2005, as a unique range of chemical glove styles providing cutting edge innovation and advanced chemical protection. The brand has continued to evolve, introducing new technologies to the market to help improve wearer protection, performance and comfort. These technologies range from developing unique polymer blends and revolutionary cut resistant yarns through to new ergonomic designs to enhance worker performance.

By the end of 2019, the chemical clothing portfolio will have also been rebranded to AlphaTec, creating a comprehensive range of both chemical gloves and suits which offer multi-hazard chemical protection solutions under one brand.

Industrial environments have many high-risk hazards and selecting protective equipment is a crucial, yet challenging task for safety and occupational hygiene professionals worldwide. Since extensive and often complex product portfolios are made even more complicated by new industry standards and regulations, assured compliance is becoming increasingly difficult. We are pro-actively streamlining the process for specifying and selecting Ansell chemical protective equipment.

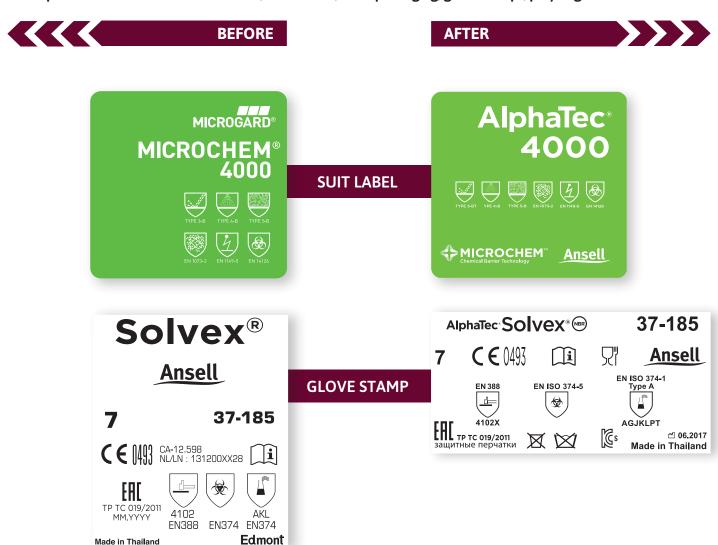
AlphaTec now provides a portfolio of multi-hazard products that takes you beyond just chemical protection.

New brand. Same product, same quality and performance

Since the integration of the TRELLCHEM®, MICROCHEM®, MICROGARD® and MICROCHEM® by AlphaTec® brands under the AlphaTec brand name, we are now able to offer an even more comprehensive portfolio of chemical and multi-hazard protection solutions to our customers. The offer now includes gloves, suits and accessory solutions, with protection against particulates, liquids, gases and biological agents, along with combined chemical and mechanical risks.

All existing chemical glove brands will also transition to the AlphaTec brand.

Our hand and Body Protection portfolios will be transitioning to AlphaTec over the next years. Changes will include: The AlphaTec brand name on chest labels, neck labels, inner packaging, glove stamps, poly bags and outer cartons.



2019 REGULATORY CHANGES

In response to regulatory **changes in 2019**, we are pro-actively streamlining the process for specifying and selecting Ansell chemical protective equipment by organizing and presenting brands from across our chemical portfolio in a simplified manner under one unique brand, AlphaTec. This consolidation garners the trust of our customers by making it easier for them to specify and select our products.



Polymer overview

AlphaTec gloves are made with a variety of high quality polymers & materials, all with varying levels of chemical protection. Combined with multi-hazard protection technology and a selection of wet and dry grip options ensures there is a solution for every task, providing complete assurance in chemical-risk environments.

Summary

Polymer	ymer Liner material	
Nitrile		
37-XXX	Flocked, cotton flocking, unlined,	
39-XXX	Interflocking cotton	
58-XXX	Nylon, AQUADRI, cotton flocking, acyrlic	
79-XXX	AQUADRI, cotton flocking	
Neoprene		
08-XXX	Interlock cotton	
09-XXX	Cotton jersey	
19-XXX	Double insulating liner	
29-XXX	Cotton flocked	
PVC		
04-XXX	Cotton lined	
23-XXX	Cotton, acrylic	
Natural Rubber	Latex	
12-XXX	Cotton flocking	
13-XXX	Unlined	
14-XXX	Unlined	
15-XXX*	Unlined	
16-XXX	Interlock cotton	
62-XXX	Nylon, cotton flocking	
87-XXX	Cotton flocking, flocked, polymide, unlined	
88-XXX	Unlined	

^{*} Legacy retail products sold in APAC

Special Polymers	Liner material
Laminated Film	
02-XXX	Unlined
Butyl / Viton®	
38-XXX	Unlined
PVA	
15-XXX	Interlock cotton
Blends or Laye	ers
53-XXX	Nylon

For simple navigation this guide will highlight the key benefits of each polymer





AlphaTec 58-128

Style Number	Liner material
37-XXX	Flocked, N/a, cotton flocking,
39-XXX	Interflocking cotton
58-XXX	Nylon, AQUADRI, cotton flocking, acyrlic black only
79-XXX	AQUADRI, cotton flocking

Nitrile rubber (NBR), also called nitrile-butadiene rubber, an oil-resistant synthetic rubber produced from a copolymer of acrylonitrile and butadiene. Nitrile performs well against oils and greases whilst also not having allergen issues (type I allergies) which is common with natural rubber.

Applications:

- · Agrochemicals
- Chemical handling, especially caustics and solvents
- Handling objects coated in grease and oils
- Maintenance
- Refining oil and petrol





AlphaTec 09-928

Style Number	Liner material
08-XXX	Interlock cotton
09-XXX	Cotton jersey
19-XXX	Double insulating liner
29-XXX	Cotton flocked

Neoprene is a family of synthetic rubbers that are produced by polymerization of chloroprene. Neoprene performs well against a range of chemicals, oils, acids and many solvents. A suitable glove to wear when handling chemicals, cleaning and degreasing due to comfortable glove fit.

- Chemical handling, especially caustics and solvents
- Degreasing
- Petrochemicals
- Plating
- Refining oil and petrol





AlphaTec 23-200

Style Number	Liner material
04-XXX	Cotton lined
23-XXX	Cotton, acrylic

Polyvinyl chloride (PVC) is a synthetic plastic polymer, with the addition of plasticizers to soften and make the PVC flexible. Our PVC gloves can be used against a range of chemicals, cleaning and degreasing, maintenance and cold storage. PVC gloves provide good abrasion resistance as well as low risk of allergies.

Applications:

- General chemical industries
- Laboratory analysis
- Pharmaceuticals
- Environmental cleanup
- Aviation
- Emergency services

Natural Rubber Latex



AlphaTec 62-401

Style Number	Liner material
12-XXX	Cotton flocking, Unlined
13-XXX	Unlined
14-XXX	Unlined
15-XXX*	Unlined
16-XXX	Interlock cotton
62-XXX	Nylon, cotton flocking
87-XXX	Unlined, cotton flocking, flocked, polymide
88-XXX	n/a

^{*} Legacy retail products sold in APAC

Natural rubber latex (NRL) is a processed product derived from the latex of the rubber tree. Natural rubber latex performs well against cleaning liquids, general purpose and food handling, as well as chemical handling. Natural rubber latex has a high level of flexibility and excellent levels of dexterity.

Applications:

- · Building materials handling
- Fish processing
- General purpose
- · Oyster farming
- Waste collection

Laminate Film



AlphaTec 02-100

Style Number	Liner material
02-XXX	Unlined

The **AlphaTec 02-100** has 5 protective layers of laminated film and is extremely resistant against a wide range of chemicals, including biological hazards.

Proprietary seam-fusion technology provides a secure seal against chemicals. This glove is often worn as an underglove. Using another glove over it would provide improved mechanical protection.

- · General chemical industries
- Laboratory analysis
- Pharmaceuticals
- · Environmental clean up
- Aviation
- · Emergency services



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V	100 mg		
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A			

AlphaTec 38-520

Style Number	Liner material
38-XXX	Unlined

Butyl is a synthetic rubber, a copolymer of isobutylene with isoprene. Butyl rubber is impermeable to air and used in many applications requiring an airtight rubber.

Viton is a branded synthetic rubber and fluoropolymer elastomer. Viton® coating on gloves provide an extra level of protection in applications involving aromatic chemicals and chlorinated solvents.

Butyl and butyl / Viton® provide the best resistance to the most aggressive chemicals without compromising on dexterity or comfort.

Applications:

- · Chemical industries
- · Chemical processing and preparation
- · Disaster response
- Mining
- OEM
- · Printing industries
- Refining oil and petrol





AlphaTec 15-554

$^{\prime}$)
	Style Number	Liner material	
	15-XXX	Interlock cotton	
\			

Poly Vinyl Alcohol (PVA) is a water-soluble synthetic polymer. PVA gloves are lightweight and provide a high level of comfort. Offering good resistance to snags, punctures, abrasion and cuts.

Performing well against strong organic solvents, working with epoxies and handling of electronics.

Applications:

- Chemical processing and preparation
- · Electronic manufacture
- Lab work and analysis, especially when resistance to acids is required
- Printing industries

Blends /Layers



AlphaTec 53-001

Style Number	Liner material
53-XXX	Nylon

Using the MICROCHEM[™] Chemical Barrier Technology, the **blended** or **multi-layered** gloves with 2 or more polymers, are engineered with a proprietary structures to provide superior protection to the wearer against hazardous chemicals. The new designed material optimizes the protection in specific application by combining the benefits of each polymer.

- · Chemical blending
- Chemical handling
- Refining oil and gas
- Cleaning/preparation for painting
- · Chemical/fluid/agent sampling
- Sampling
- · Assembly/maintenance



Chemical styles numbering - going forward

Current Sta	atus					
LF	PVC	NE	PVA	NBR	VB	NRL
Laminated Film	PVC	Neoprene	PVA	Nitrile	Butyl / Butyl Viton	Natural Rubber Latex
02-XXX	04-XXX	08-XXX 09-XXX 19-XXX	15-XXX	37-XXX 39-XXX 58-XXX 79-XXX	38-XXX	87-XXX 88-XXX

Future St	atus						
LF	PVC	NE	PVA	*	NBR	VB	NRL
Laminated Film	PVC	Neoprene	PVA	Blends / Layers	Nitrile	Butyl / Butyl Viton	Natural Rubber Latex
02	04	09	15	53	58	38	88

Chemical Glove	Cut	Thermal	Impact	Multi- Hazard	ATEX	Spare	Spare	Spare	Spare
0	1	2	3	4	5	6	7	8	9

- We are defining the numbering system, there is no pupose behind the colours used above.
- Initial first 2 digits (xx-xxx) are to represent the Predominant Polymer of the glove. Move to have only 1 per polymer to create a sense of order going forwards.
- The first digit of the last 3 digits (xx-xxx) is to represent the Predominant Protection the glove is designed to protect against.
- The last 2 digits of the last 3 digits (xx-xxx) will simply increase sequentially as more product is introduced into the range starting from 01. Where a current glove code is encountered, this is simply skipped and the next code is assigned.





Body protection overview

Protecting people while they work in hazardous or dirty environments is our key focus. Whether you are working with liquid or solid chemicals, asbestos, paint, oil, grease, viruses and blood borne pathogens or one of the many other work place hazards, we have a protective solution for you.

When selecting the most appropriate body protection solution, its important to select the suit with the best protection for the application. Body protection suits* are available in a range of models with varying features including integrated socks and attached gloves.

Please refer to the table at the back for a complete list of models available.

By following our step-by-step guideline, you can easily identify the right suit for your chemical task.

1. Identify the "primary" exposure hazard(s)

Chemical(s)	Particulate contamination	Biological/infective agents
	•	&
• Gas/vapour • Liquids • Solids • Pure or mixtures	Airborne • Radioactive particulates	• Blood-borne • Airborne/solid

2. Determine the potential for exposure and consequence

and then identify the type or types to be considered.

"Type"	Type 1/2	Type 3	Type 4	Type 5	Type 6
Exposure type	Gas/vapour	Liquid spray under pressure (liquid jet)	Liquid spray (shower/saturation)	Airborne particulates	Light spray/mist

3. Consider the 'secondary' hazard(s)

Heat and flame	Static discharge	Low visibility	Physical demands	Comfort
*	4	Ø	*	

4. Review technical data

Review product technical data in relation to physical, barrier and comfort properties - match to assessment outcomes from stages 1-3.

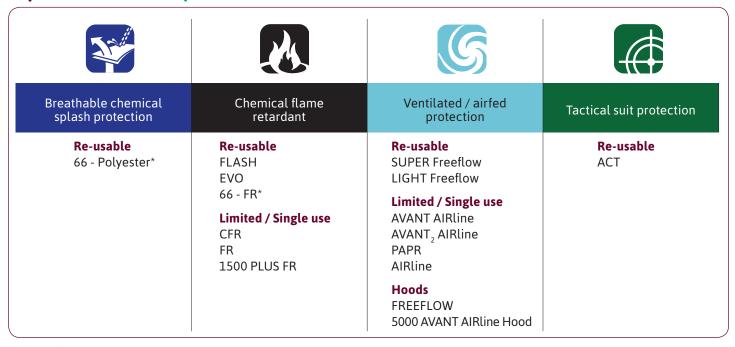
5. Make your product selection

Identify the correct protection segment and category to find the right protection solutions matched to your safety needs and work environment.

Type 1	Type 3	Type 4	Type 5	Type 6
Gas /Vapour	Liquid Spray Under Pressure (Liquid Jet)	Liquid Spray (Shower / Saturation)	Airborne Particulates	Light Spray / Mist
Re-usable EVO FLASH VPS SUPER LIGHT Limited use 6000	5000 5000 A 4000 4000 A 3000 2300 P	d / Single use POLLO	Limited / 2500 STAI 2500 PLUS 2300 STAI 2300 COM 2000 STAI 2000 COM 2000 SOC 2000 Ts P 1800 STAI 1800 COM 1800 Ts P 1600 PLUS 1500 1500 PLUS	S NDARD IFORT NDARD IFORT O LUS NDARD IFORT LUS

^{*} Type 4 only

Specialised protection



^{*} Only available in North America



AlphaTec SUPER Type T

Type 1Gas & vapour

Ansell gas-tight chemical protective clothing all comply to the Type 1 standard. Our gas-tight range provide the wearer protection against liquid and gaseous chemicals, aerosols and solid particulates. For high level protection, the AlphaTec EVO and FLASH are NFPA 1991:2016* approved. Type 1 products perform well in a variety of applications, including CBRN emergencies, HAZMAT response, cleaning and unexpected leakages and spills.

*NFPA 1991:2016 is only applicable to EVO and FLASH types CV and VP1.

Typical industries & Applications:

- · Accidental release of toxic gases
- · Biohazard response
- CBRN Emergencies
- · Chemical leaks
- · Emergency response
- · Hazmat response
- Maintenance of plant and machines
- · Plant Emergencies
- · Tank Cleaning
- Unexpected leakages spills or other releases
- · Unexpected leakages, spills



AlphaTec 4000 Model 111

Type 5 / 6Particulate & light spray

Ansell Type 5 / 6 protective clothing range are dry particulate and reduced spray compliant. Type 5 certified suits provide protection to the full body against airborne solid particulates. Type 6 certified suits offer a limited protection against a light spray of liquid chemicals. Our Type 5 / 6 suits provide the wearer with excellent protection and comfort.

Typical industries & Applications:

- Asbestos related work
- Handling Powders
- Construction
- Fiberglass/resin applications/ceramic fibres
- Pharmaceutical Industries
- · Wood and metal processing
- · Food processing and agriculture
- · Paint spraying and surface inspection
- · Clean room cleaning and preparation
- · Cleaning of plant and machines
- Maintenance of plant and machines
- Production line support & maintenance

Type 3 / 4Liquid spray

Our Type 3 / 4 protective clothing range are all liquid or spray tight suits complying to the standards. AlphaTec Type 3 suits can protect against strong and directional jets of liquid chemicals. The Type 4 suits offer protection against saturation of liquid chemicals.

AlphaTec Type 3 / 4 products provide a multi-layer barrier fabric effective against numerous chemicals, whilst incorporating various comfort features. Applications include chemical handling, pharmaceutical activities, mining and sewage purification.

Typical industries & Applications:

- Chemicals
- Oil and petrochemicals
- Pharmaceutical
- Food industry (caustic clean downs)
- · Sewage purification
- Installations
- · Industrial and tank
- Cleaning
- Mining
- · Nuclear & wind power



AlphaTec 2000 COMFORT Model 129



AlphaTec® apronoverview

Ansell offers a portfolio of aprons* in different materials, colours, designs and sizes.

Aprons are used in a variety of applications:

- · food processing,
- · laboratories,
- · chemical processing,
- · cleanrooms,
- pharmaceutical,
- · janitorial and many others.

Ansell aprons comply with FDA regulations for food contact.

PVC

Style Number

56-100 56-101

- PVC (Vinyl) aprons traditionally offer excellent protection where splashes from acids and caustic bases are a concern
- The PVC construction is flexible yet offers resistance to abrasion and puncture
- Sealed grommets with adjustable ties allow for size adjustment without tear-out



AlphaTec 56-100



Diving suit protection overview

VIKING diving suits offer world class protection for contaminated water diving (CWD).

VIKING dry suits have been developed, manufactured and adapted to fulfill the needs and requirements of divers operating in some of the harshest circumstances, including:

- Fire/rescue
- Public safety
- Military
- Law enforcement
- Sport/technical divers.

All VIKING dry diving suits are certified to EN14225-2:2017 as a minimum, which is a legal requirement to ensure compliance with PPE regulations 2016/425.

All Viking rubber dry suits feature vulcanized seams ensuring seam integrity at all times. Viking PU suits include HF welded seams which means there are no stitch holes which could cause leaks.

Viking rubber and PU suits have smooth exterior surfaces which are perfect for cleaning chemical and biological contamination after each and every dive. The same cannot be said of suits that have an outside surface such as nylon or polyester which would be almost impossible to clean.

Summary

Fabric Rubber Dry Suits PRO PROTECH II HD HDS DIVERS DRESS Trilaminate Dry Suits VSN VTS WRS WRS-D PU Dry Suits HAZTECH

Rubber Dry Suits



VIKING PRO

Style Reference

PRO

PROTECH II

HD

HDS

DIVERS DRESS

VIKING rubber dry suits have been developed over a number of years to fulfil the needs and requirements of divers working in the harshest commercial environments around the globe.

These areas include fire, rescue and public safety diving, military divers and law enforcement agencies as well as sport and technical divers.

Applications:

- · Disaster recovery
- · Fire & rescue
- · Inspection diving
- Maintenance inspection
- · Military diving
- · Underwater search and recovery

PROTECH II, HD, HDS & DIVERS DRESS suits are all fully CE certified and include HZ chemical & BIO options

Trilaminate Dry Suits



VIKING WRS-D

Style Reference

VSN

VTS

WRS

WRS-D

VIKING trilaminate diving and surface rescue suits feature a unique seam sealing method called "Vulca Seam Technology" whereby the seams are vulcanised similar to VIKING rubber suits, but on the inside.

Unique stretch VSN trilaminates, which are thin and incredibly strong. Ansell have suits designed for diving as well as surface rescue manufactured from a range of trilaminate materials including Cordura, Polyester & Nylon. Lightweight yet strong.

Applications:

- · Underwater search and rescue
- · Special forces diving
- · Technical diving
- · Inshore diving
- · Sports/technical diving
- Surface rescue*
 * non diving suits

PU Dry Suits



Style Reference

HAZTECH

The PU suit is designed for warm water, hot climate and contaminated water diving. The suit features HF welded seams for maximum security. The VIKING HAZTECH, is made from a new generation of TPU material. Designed for contaminated water diving, the VIKING HAZTECH is fully CE certified with additional HZ and BIO testing completed. The suit features HF welded seams (with no stitching holes) for maximum security.

- · Light commercial diving operations
- · Military diving
- · Fire and rescue diving
- · Inshore diving





Every day, workers across the world face working in dirty, hazardous and challenging environments. If you are working with one of the countless workplace contaminants in evidence today, trust Ansell to help keep you protected. We offer the widest range of best in class multi hazard protection solutions and workers can now take advantage of increased confidence and Feel EQUIPPED.

Selecting the appropriate protective products is often a challenging exercise. A range of different hazards, chemicals and chemical mixtures are often likely to be found in many typical production processes or facilities. Choosing the best option for your application is not an easy task and deserves careful attention.

Ansell GUARDIAN Partner provides digital tools to help you select the right chemical protection solution to improve safety, productivity and cost performance.

www.ansell.com





Search

Product selection

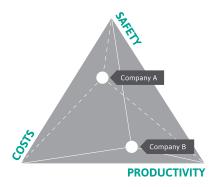
Solution

CAS	CHEMICAL NAME
110-82-7	CYCLOHEXANE



CHEMICAL PERMEATION DATA





As an industry pioneer with the most advanced and proprietary technology and analytics's, we have gained our experience in more than 15,000 assessments and more than 20,000 chemical assessments conducted since 2010, operating in more than 55 countries globally.

To help companies find the right PPE solutions for different chemical environments, we keep a database with over 25,000 chemicals at your disposal.

◢ For up-to-the-minute chemical permeation data, please visit: www.ansell.com/permeation

Ansell **GUARDIAN**®



Over the years, Ansell has pioneered many innovations in glove design that have become industry standards. Transforming global insights about end user needs into technology-based solutions that enhance workers' comfort, performance and protection is the hallmark of our innovation.

Our latest technology is the MICROCHEM Chemical Barrier Technology. Combining polymers in proprietary blends or multi-layer structures specific to their application, providing superior protection to wearers in Chemical, Biological, Radiological and Nuclear (CBRN) environments.*













Product overview: Hand Protection

Product overview. Hand Protection
Nitrile
37-007
37-136
37-185
37-186
37-200
37-210
37-220
37-340
37-501
37-510
37-520
37-646
37-655
37-675
37-676
37-695
39-035
39-061
39-122
39-124
58-128
58-270
58-330
58-335
58-430
58-435
58-530B
58-530W
58-535B
58-535W
58-735
79-340
79-700
Neoprene
08-352
08-354
09-022
09-430
09-922
09-924
09-928

PVA	
15-554	
Natural rubber latex	
16-650	
62-201	
62-401	
87-029	
87-063	
87-085	
87-086	
87-089	
87-104	
87-105	
87-107	
87-108	
87-118	
87-137	
87-190	
87-195	
87-305	
87-310	
87-315	
87-245	
87-370	
87-370PP	
87-600	
87-650	
87-665	
87-900	
87-950	
87-955	
Blends	
53-001	

09-022
09-430
09-922
09-924
09-928
19-024
19-026
29-500
PVC
14-662
14-663
23-200
23-201
23-202
Laminated Film
02-100
Butyl, Butyl/Viton®
38-514
38-520
38-560
38-612
38-628

Product overview: Body Protection

Type 1	
EVO	CV, VP1, T
FLASH	CV, VP1, T
SUPER	CV, VP1, T, FREEFLOW
VPS	CV, VP1, T
LIGHT	
	CV, VP1, T, FREEFLOW
6000	GTS, GTB (MICROGARD/MICROCHEM Branded)
Trainer	CV, VP1, T (Training use only, not a certified product
Type 3 & Type 4	
2300 PLUS	Model 111, 132
3000	Model 103, 111, 121, 122, 162
3000 Accessories 4000	Model 201, 213, 214, 215, 301, 400, 406, 507, 508, 600 Model 103, 111, 121, 122, 125, 126, 132, 162, 151-G00 & G02, 185
4000 Accessories	Model 212, 215, 230, 301, 406, 510, 516, 600
5000	Model 103, 111, 121-G02, 122, 125-G02, 151-G00 & G02, 164, 186, 198
5000 AVANT	521 AVANT AIRline Hood
2500 PLUS PAPR	700, 701, 704, 705
3000 PAPR	700, 701, 704, 705
3000 AIRline	750, 752
3000 AVANT AIRline	754, 755
3000 AVANT, AIRline	756, 757
4000 PAPR	701, 704, 705
4000 AIRline	750, 752
4000 AVANT AIRline	754, 755
4000 AVANT, AIRline	756, 757
CFR	103, 111
Type 5 & Type 6	
4500	
1500	Model 113, 138
1500 1500 Accessories	Model 113, 138 Model 422
1500 Accessories	Model 422 Model 103, 111
1500 Accessories 1500 PLUS FR 1500 PLUS	Model 422
1500 Accessories 1500 PLUS FR 1500 PLUS 1500 PLUS Accessories	Model 422 Model 103, 111 Model 103, 107, 111, 147 Model 208
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1500 Accessories 1500 PLUS FR 1500 PLUS 1500 PLUS Accessories 1600 PLUS 1800 COMFORT 1800 STANDARD 1800 TS PLUS 2000 2000 COMFORT 2000 TS PLUS 2000 TS PLUS 2000 Accessories 2300 STANDARD	Model 422 Model 103, 111 Model 103, 107, 111, 147 Model 208 Model 111 Model 195 Model 103, 111, 147 Model 103, 111, 122, 156 Model 103, 111, 113, 122, 156, 162 Model 103, 111, 113, 122, 156, 162 Model 129 Model 103, 107, 111, 122, 128, 156 Model 128 Model 103, 111, 122, 128, 156 Model 209, 213, 214, 219, 226, 301, 400, 401, 406, 40 417, 503, 507, 600 Model 103, 111, 122, 156 Model 129

Ventilated / airfed prote	
	ering respiratory device compatible protective clothin
	emain MICROGARD/MICROCHEM branded
2500 PLUS PAPR	Model 700, 701, 704, 705
3000 PAPR	Model 700, 701, 704, 705
4000 PAPR	Model 700, 701, 704, 705
EN1073-1 Ventilated pr	
2500 PLUS AIRline	Model 750, 752
3000 AVANT ₂ AIRline	Model 756, 757
4000 AVANT ₂ AIRline	Model 756, 757
EN14594 : Continuous flo	ow compressed airline respiratory protection
FREEFLOW Hoods	LIGHT, SUPER
EN1073-1 : Ventilated pr	
EN14594 : Continuous flo	ow compressed airline respiratory protection
Ü	Rline models will remain as MICROCHEM branded AlphaTec by the end of 2019
3000 AIRline	Model 750, 752
4000 AIRline	Model 750, 752
3000 AVANT AIRline	Model 754, 755
4000 AVANT AIRline	Model 754, 755
5000 AVANT AIRline	Model 521
EN 943-1 Type 1c	
FREEFLOW SUIT	LIGHT, SUPER
Aprons	
PVC	56-100
	56-101
Diving Products	
VIKING	HAZTECH
	HD
	HDS
	PRO
	PROTECH
	SRS
	VSN
	VTS
	WRS
	WRS-D

Divers Dress



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Against near or total are not menued in the time temperatures – use only as speciment. Flouties, containing indust insulated that place after give reactions in some movious.

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