



# PRODUCT CATALOGUE

2024

PROGRESS AND THRIVE SAFELY



**Midas Safety Private Limited** is a pioneer in hand safety, we have a wide range of innovative, technology driven safety products and services. With **ISO 9001:2015 certified manufacturing plant** at Coimbatore, we produce world class PPE's including **gloves, sleeves, helmets and respirators.**

We are a leading supplier to Automotive, Oil & Gas, Chemical, Energy, Healthcare, Food Processing & Infrastructure industries. We supply through **over 100 authorized dealers across India**, with local stock availability.

**System Compliance:**

**ISO 13485:** International standard for medical device quality management systems.  
**ISO 9001:** International standard for quality management systems. These compliances are exclusively certified by agencies accredited by NABCB, IAF, or ILAC, guaranteeing the highest levels of trust and reliability.  
 Module D - EU PPE Regulations 2016/425: European council requirements for production/ quality control of Category III PPE.

**Lab Infrastructure includes:**

IS 9473 and IS 16289: Indian standards for respiratory protective devices.  
 EN 14683 and EN 149: European standards for respiratory protective devices.  
 42 CFR Part 84: American national standards for respiratory protective devices.  
 IS 2925: Indian standards for helmets/hard hats.  
 EN 397: European standards for helmets/hard hats.  
 ANSI Z89.1: American standards for helmets/hard hats.



**INDIA'S LEADING PPE MANUFACTURER AND DISTRIBUTOR**

**OUR BRANDS**



*High Performance and Best in Class*



*Technology Lead Solution*



SAFE AT WORK

*Value Driven Solution*



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# Glove Selection Guide

## (Supported Gloves)

### Yarn Characteristics Comparison

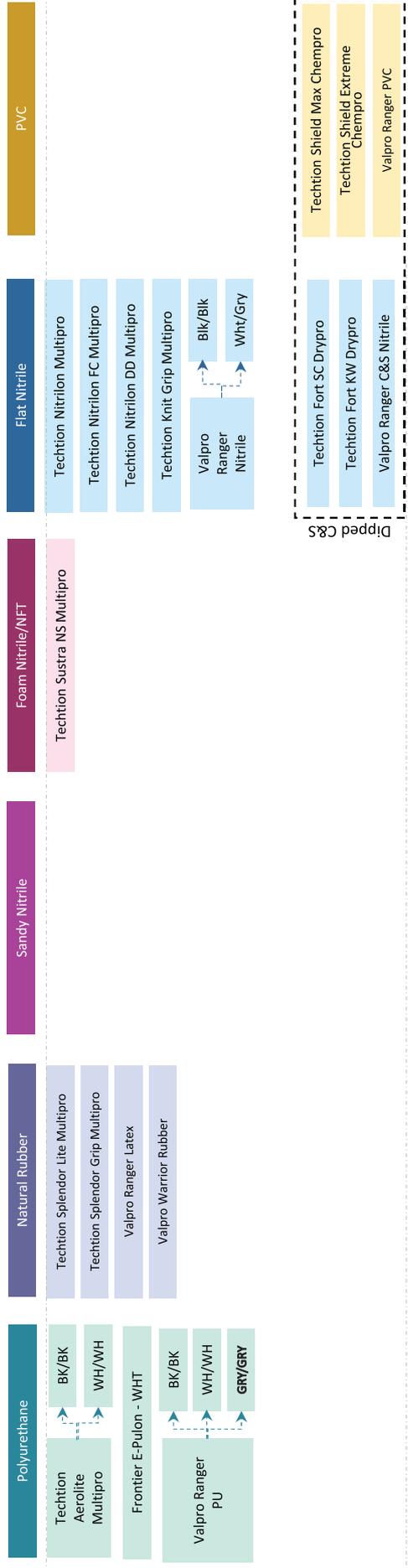
FEATURE	COTTON	POLYESTER/ NYLON	HIGH- TENACITY NYLON	KEVLAR®/ ARAMID	HPPE	GLASS FIBER & NYLON	HPPE & STEEL & SYNTHETIC YARNS	HPPE NYLON & GLASS	KEVLAR® STEEL
CUT RESISTANCE	poor	poor	average	very good	very good	good	excellent	very good	excellent
TEAR RESISTANCE	average	average	average	excellent	excellent	poor	excellent	excellent	excellent
COMFORT	very good	very good	good	good	excellent	excellent	good	good	good
HEAT RESISTANCE	good	poor	average	very good	poor	poor	poor	poor	average
COLD RESISTANCE	good	average	good	very good	average	average	average	average	average
SWEAT ABSORPTION	very good	poor	poor	average	very good	poor	average	average	poor
SHRINKAGE	none	none	none	none	none	none	none	none	none
ELASTICITY	poor	average	poor	poor	poor	poor	poor	poor	poor
YARN COST	very low	very low	low	high	high	low	high	medium	high

### Coating Compatibility Chart

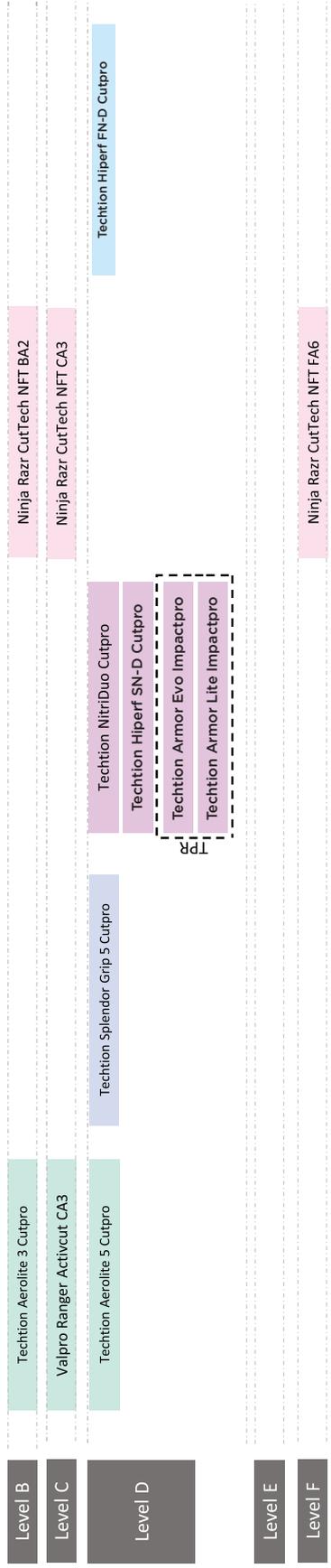
COATING TYPE		NITRILE FLAT	NITRILE SANDY	NITRILE SPONGE	MICRO FOAM NITRILE	NFT	NATURAL RUBBER	PVC	PU (POLYURETHANE)	Bi-Polymer (NITRILE/PU BLEND)
CHARACTERISTICS	FINISH	smooth	textured	textured	textured	textured	crinkle	particle/rough	smooth	smooth
	STRENGTH	excellent	excellent	excellent	excellent	excellent	excellent	fair	excellent	excellent
	WEIGHT	medium	medium	medium	light	medium	heavy	heavy	light	light
	BREATHABILITY	n/a	fair	very good	very good	very good	poor	n/a	excellent	good
	FLEXIBILITY	good	good	good	very good	very good	excellent	good	excellent	excellent
GRIP	DRY	excellent	good	good	good	good	excellent	excellent	good	very good
	OIL	good	good	good	good	excellent	not recommended	good	good	good
	WET	poor	poor	fair	fair	very good	good	excellent	good	not recommended
COMFORT		very good	very good	excellent	excellent	excellent	excellent	fair	very good	excellent
COST		medium	medium	high	high	high	medium	low	low	medium
LIMITATION		Poor breathability. Inherently soapy in wet conditions.		Inherently soapy in wet environment.  Micro foam Nitrile is less permeable than sponge nitrile.		Due to porous structure, moisture penetration is high.	Sensitive to heat. Poor oil/grease resistance. Can cause allergic reactions.	Marring/smudging due to plasticizers on coating reduced tactility.	Porous. High permeability. DMF levels.	Water can easily pass through. High permeability. Low abrasion resistance.

Cutting Level

# Glove Coating

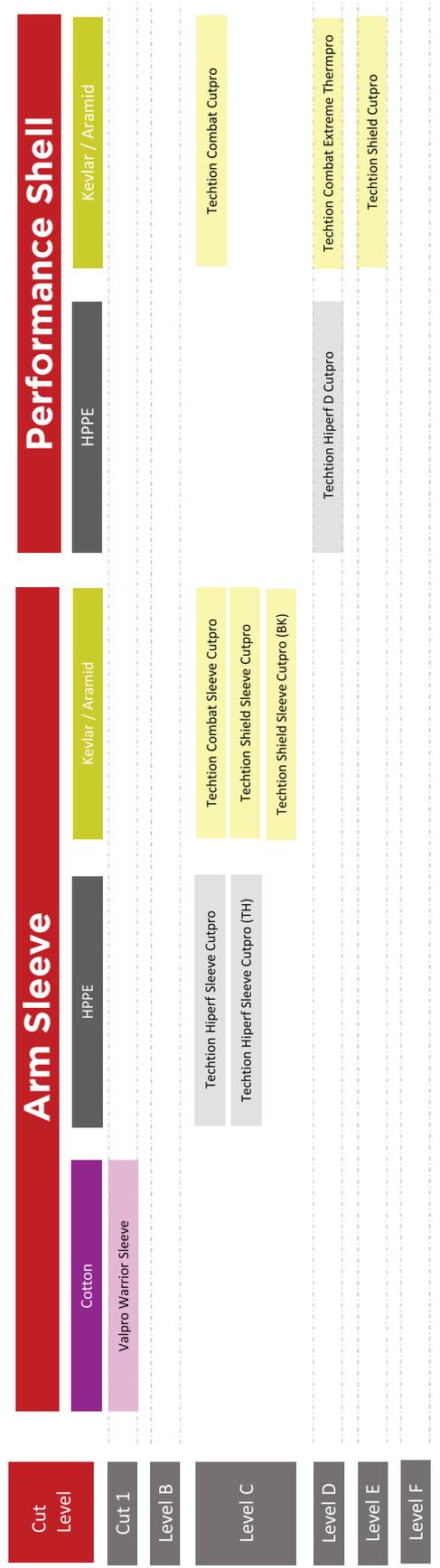


# Supported Gloves



# Machine Knits

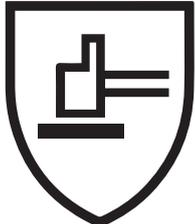
# Selection Chart



# GUIDE TO STANDARD EN 388

# STANDARD FOR PROTECTIVE GLOVES AGAINST MECHANICAL RISKS

EN388:2016



abcdef

PERFORMANCE LEVEL RATINGS	1	2	3	4	5
a Abrasion Resistance (Cycles)	100	500	2000	8000	-
b Blade Cut Resistance (Coupe Test/Index)	1.2	2.5	5.0	10.0	20.0
C Tear Resistance (newton)	10	25	50	75	-
d Puncture Resistance (newton)	20	60	100	150	-

PERFORMANCE LEVEL RATINGS	A	B	C	D	E	F
e EN ISO Cut Resistance (newton)	2	5	10	15	22	30
f EN Impact Protection	PASS or FAIL					

If 'X' is marked for 'a' to 'e', it means "not tested" or "not applicable".  
"f" is applicable only for impact resistant gloves.

## GRIP & GENERAL PURPOSE



### TECHTION® NITRILON FC MULTIPRO

A robust fully coated nitrile gloves for grip in oily conditions.

**STANDARDS**



**INDUSTRIES**



### TECHTION® NITRILON DD MULTIPRO

Lightweight, flexible, and dexterous double coated nitrile gloves offering high durability and great grip in oily conditions

**STANDARDS**



**INDUSTRIES**



### TECHTION® KNIT GRIP MULTIPRO

A unique knit pattern on the palm & an advanced nitrile coating provide a strong grip and excellent abrasion resistance.

**STANDARDS**



**INDUSTRIES**



### VALPRO® RANGER NITRILE

Valueline glove offering good grip and durability in dry and oily conditions.

**STANDARDS**



**INDUSTRIES**



### TECHTION® AEROLITE MULTIPRO

Lightweight, breathable, durable PU dipped gloves suitable for delicate assembly and material handling.

**STANDARDS**



**INDUSTRIES**



### VALPRO® RANGER PU

Good dry grip. Suitable for light assembly and handling operations.

**STANDARDS**



**INDUSTRIES**



### TECHTION® SPLENDOR LITE MULTIPRO

Lightweight yet durable latex coated gloves that offers dexterity and grip in most dry and wet applications.

**STANDARDS**



**INDUSTRIES**



### VALPRO® WARRIOR RUBBER

Polycotton with latex crinkle coating - a medium duty glove for construction and material handling.

**STANDARDS**



**INDUSTRIES**



### TECHTION® SPLENDOR GRIP MULTIPRO

Durable yet comfortable gloves with proven performance in construction and general purpose. Double formed to reduce hand fatigue for long hours of use.

**STANDARDS**



**INDUSTRIES**



### VALPRO® RANGER LATEX

Valueline crinkle latex grip glove with a lightweight liner, suitable for construction and general handling.

**STANDARDS**



**INDUSTRIES**





# Industry favourite

Proven nitrile coated gloves offering the best-in-class grip and durability in dry and oily conditions.



MULTIPURPOSE - HEAVY DUTY



Reliable and proven cut & sewn gloves with safety cuff for demanding tasks.



### TECHTION® FORT KW DRYPRO

Premium and heavy duty nitrile cut & sewn glove with high abrasion resistance.

STANDARDS



INDUSTRIES



### TECHTION® SHIELD MAX CHEMPRO

Durable double dipped PVC gloves suitable for heavy duty work and resistant to mild acids / alkalis.

STANDARDS



INDUSTRIES



### VALPRO® RANGER C&S NITRILE

Easy don & doff value line nitrile glove best suited for scrap handling and machine maintenance.

STANDARDS



INDUSTRIES



### VALPRO® RANGER PVC

Medium duty PVC gloves for material / general handling. Available in 14", 16" & 18" lengths.

STANDARDS



INDUSTRIES





CUT LEVEL D

**TECHTION® AEROLITE 5 CUTPRO**

Exceptional comfort and dexterity, with superior cut protection, ideal for high-risk applications.

PU

STANDARDS  
EN388:2016  
4X42D



CUT LEVEL B

**TECHTION® AEROLITE 3 CUTPRO**

PU coated engineered shell with good dexterity, abrasion and cut resistance.

PU

STANDARDS  
EN388:2016  
4342B



CUT LEVEL D

**TECHTION® NITRIDUO CUTPRO**

Nitrile double-dipped cut resistance gloves combined with long lasting oil resistant grip.

Nitrile Sandy

STANDARDS  
EN388:2016  
4X42D



CUT LEVEL D

**TECHTION® HIPERF FN-D**

Thin nitrile coated cut resistance gloves, combined with best-in-class grip and comfort.

Nitrile Smooth

STANDARDS  
EN388:2016  
4X42D

New launch



CUT LEVEL D

**TECHTION® HIPERF SN-D**

Durable sandy nitrile coated gloves, offering excellent cut resistance and grip.

Nitrile Sandy

STANDARDS  
EN388:2016  
4X42DP

New launch



CUT LEVEL D

**TECHTION® SPLENDOR GRIP 5 CUTPRO**

Durable, reliable latex coated cut resistant gloves. Ideal for bottle and glass handling applications.

Latex Crinkle

STANDARDS  
EN388:2016  
3X42D



CUT LEVEL D

**TECHTION® HIPERF D CUTPRO**

Uncoated cut resistant shell reinforced with HPPE, offering excellent cut resistance, comfort, and dexterity.

STANDARDS  
EN388:2016  
3X4XD



CUT LEVEL C

**VALPRO® RANGER ACTIVCUT CA3**

Cost-effective PU coated gloves provide excellent cut resistance, flexibility and dexterity.

PU

STANDARDS  
EN388:2016  
4X42C



CUT & IMPACT PROTECTION



CUT LEVEL D

**TECHTION® ARMOR EVO IMPACTPRO**

Durable Impact protection gloves with padded palm, offering advanced cut resistance and grip, with dexterity.

STANDARDS  
EN388:2016  
4X42DP



CUT LEVEL D

**TECHTION® ARMOR LITE IMPACTPRO**

Medium duty Impact protection gloves, offering superior cut resistance and grip.

STANDARDS  
EN388:2016  
4X42DP



ARM PROTECTION

**TECHTION® COMBAT SLEEVE CUTPRO**  
Kevlar® double-layered sleeve with thumbhole  
Available in 18" & 22" lengths



STANDARDS  
EN 388:2016  
1X32C

EN 407:2004  
X1XXXX

**TECHTION® SHIELD SLEEVE CUTPRO**  
Para-Aramid sleeve with thumbhole  
Available in 18" & 22" lengths



STANDARDS  
EN388:2016  
1433X

EN407:2004  
X1XXXX

**TECHTION® HIPERF SLEEVE CUTPRO**  
HPPE sleeve with thumbhole  
Available in 18" & 22" lengths



STANDARDS  
EN388:2016  
3X42C

**VALPRO® WARRIOR SLEEVE**  
Cotton general purpose sleeve



Available colour  
Natural / Navy blue / Melange  
Available length  
14", 16", 18" & 22"



**CUT  
RESISTANT  
RANGE**

**NINJA**  
RAZR

**NINJA**  
RAZR  
CutTech NFT™ FA6

Superior **cut resistance (Level F)**, combined with best in class **dry & oil grip**, offering excellent dexterity for precision handling.



EN388:2016



4X42F

ANSI



Cut

ANSI



Abrasion



**NEW FOAM TECHNOLOGY™**

Unmatched Comfort and Durability

CutTech NFT™ CA3

Excellent cut resistance combined with good dexterity and comfort.



CutTech NFT™ BA2

Lightweight cut-resistant gloves that offer superior facility, dexterity, and flexibility.



EN388:2016



4X42C

EN407:2004



X1XXXX

ANSI



Cut



**NEW FOAM TECHNOLOGY™**

Unmatched Comfort and Durability

EN388:2016



4X31B

EN407:2004



X1XXXX

ANSI



Cut



**NEW FOAM TECHNOLOGY™**

Unmatched Comfort and Durability

# GUIDE TO STANDARD EN 407

# STANDARD FOR PROTECTIVE GLOVES AGAINST THERMAL RISKS

EN407:2020



abcdef

EN407:2020



abcdef

Performance Level	Level 1	Level 2	Level 3	Level 4
<b>a.</b> Limited Flame Spread After Glowtime (2020)	≤ 15s No Rqmt	≤ 10s ≤ 120s	≤ 3s ≤ 25s	≤ 2s ≤ 5s
Resistance to Flammability (2004)	≤ 20s No Rqmt	≤ 10s ≤ 120s	≤ 3s ≤ 25s	≤ 2s ≤ 5s
<b>b.</b> Contact Heat (cont. temp. & threshold time.)	100°C ≥ 15s	250°C ≥ 15s	350°C ≥ 15s	500°C ≥ 15s
<b>c.</b> Convective Heat (heat transfer index)	≥ 4s	≥ 7s	≥ 10s	≥ 18s
<b>d.</b> Radiant Heat (heat transfer index)	≥ 7s	≥ 20s	≥ 50s	≥ 95s
<b>e.</b> Small Splashes Molten Metal (# drops)	≥ 10	≥ 15	≥ 25	≥ 35
<b>f.</b> Large Quantities of Molten Metal (mass)	30g	60g	120g	200g

Only products that achieve a minimum EN388 Level 1 for Abrasion and Tear can qualify for EN407 marking

“b” (Contact heat) – to mark level 3 or higher -> “a” (flame spread) should be equal to or greater than 3. If not, glove should be marked level 2 only, irrespective of higher contact heat scores.

“c” (Convective heat), “d” (Radiant heat), “e” (Small metal splash) -> “a” (flame spread) should be equal to or greater than 3, for marking levels for “c” to “e”. If not gloves to be marked ‘0’ for c, d and e regardless of scores achieved.

## CUT & HEAT PROTECTION



### TECHTION® COMBAT CUTPRO

7GG Kevlar knitted shell; the best combination of cut protection and contact heat protection.

#### STANDARDS



#### INDUSTRIES



### TECHTION® SHIELD CUTPRO

7GG Para-aramid shell offering good cut and contact heat protection, at great value.

#### STANDARDS



#### INDUSTRIES



### TECHTION® COMBAT EXTREME THERMPRO (Formerly known as “KEVLAR SOLAR”)

Heavy-weight, Kevlar® outer/Cotton inner, double-layered shell for thermal and cut protection.

#### INDUSTRIES



#### STANDARDS



### TECHTION® SWIFT EXTREME MULTIPRO

Heavy-weight, cotton double layered gloves

#### INDUSTRIES





Our knitted gloves made from cotton are durable and often feature PVC dots that enhance grip.

**7GG & 10GG glove** variants are available in different colours, weights and length.

Special **plaited versions / yarn combinations** are also available.



## Cotton Gloves Selection Chart

Cotton & Synthetic Gloves															
Material	Cotton / Poly Shell			Cotton Shell + PVC Dots (SD)			Cotton Shell + PVC Dots (DD)								
Gauge	Natural White	Navy Blue	Grey Melange	Natural White	Navy Blue	Grey Melange	Natural White	Navy Blue	Grey Melange						
7GG	7N40	7B40	7M40	7NSD40	7BSD40	7MSD40	7NDD40	7BDD40	7MDD40						
	7N50	7B50	7M50							7NSD50	7BSD50	7MSD50	7NDD50	7BDD50	7MDD50
	7N60	7B60	7M60												
	7N70	7B70	7M70												
	7N80	7B80	7M80												
	7N90	7B90	7M90												
	10GG	10N40	10B40	10M40	10NSD40	10BSD40	10MSD40	10NDD40	10BDD40	10MDD40					
10N50		10B50	10M50	10NSD50							10BSD50	10MSD50	10NDD50	10BDD50	10MDD50
10N60		10B60	10M60												
10N70		10B70	10M70												
10N80		10B80	10M80												
10N90		10B90	10M90												
		10PSW30													

## Naming Convention

Name	Gauge	Colour	PVC Dots	Shell Weight
7N40	(7) 7GG	(N) Natural White	---	(40) 40g Shell
10BSD60	(10) 10GG	(B) Navy Blue	(SD) Single Dotted	(60) 60g Shell
7MDD40	(7) 7GG	(M) Grey Melange	(DD) Double Dotted	(40) 40g Shell

Note: 10PSW30 - 10GG Polyester shell, 30g.



# GUIDE TO STANDARD EN 374

# MODIFIED STANDARD FOR CHEMICAL PROTECTIVE GLOVES

EN ISO 374:2016 GLOVES GIVING PROTECTION FROM CHEMICALS AND MICRO-ORGANISMS

## EN 374 Chemical List

Code Letter	Chemical
A	Methanol
B	Acetone
C	Acetonitrile
D	Dichloromethane
E	Carbon Disulphide
F	Toluene
G	Diethylamine
H	Tetrahydrofurane
I	Ethyl Acetate
J	n-Heptane
K	Sodium Hydroxide 40%
L	Sulphuric Acid 96%
M	Nitric acid 65%
N	Acetic acid 99%
O	Ammonia 25%
P	Hydrogen Peroxide 30%
S	Hydrofluoric Acid 40%
T	Formaldehyde 37%

## Permeation Performance Levels

Performance Level	Breakthrough Time
level 1	>10 mins
level 2	>30 mins
level 3	>60 mins
level 4	>120 mins
level 5	>240 mins
level 6	>480 mins

## EN ISO 374-1 Classifications

The standard establishes three types for glove permeation protection.

Type A, B or C is determined by the number of chemicals it can resist for set period of time.

EN ISO 374-1/Type C



At least Level 1 performance (more than 10 minutes) against at least one chemical on the list

EN ISO 374-1/Type B



At least Level 2 performance (more than 30 minutes) against at least three chemicals on the list

EN ISO 374-1/Type A



At least Level 2 performance (more than 30 minutes) against at least six chemicals on the list

## EN ISO 374-5:2016

The standard defines protection measures for bacteria and fungi risks.

### 1. Protection against bacteria and fungi

EN ISO 374-5



"The penetration resistance has been assessed under laboratory conditions and relates only to the tested specimen".  
"Not tested against viruses".

### 2. Protection against viruses, bacteria and fungi

EN ISO 374-5



"The penetration resistance has been assessed under laboratory conditions and relates only to the tested specimen".

## DISPOSABLES

**TECHTION**  
XPERT NITRO CLASSIC  
ONEPRO

Exceptional fit and reliable protection for a wide range of industrial applications.

Thickness: 4.0 mil  
Length: 245 mm (± 5 mm)

EN 374-1:2016/Type B

EN ISO 374-5:2016

CE 0598



3.2 mil  
245 mm (± 5 mm)

### TECHTION® XPERT NITRO ONEPRO

Disposable nitrile gloves suited for medical and food handling application.

#### STANDARDS

EN374-1:2016 /Type B

ENISO 374-5:2016



#### INDUSTRIES



### TECHTION® XPERT NITRO HRX6 ONEPRO

Long-cuffed 6 mil disposable gloves, an unparalleled combination of chemical splash protection, comfort, and durability.



6.0 mil  
295 mm (± 5 mm)

AQL 0.65

#### STANDARDS

EN374-1:2016 /Type B

ENISO 374-5:2016



ISO 18889

#### INDUSTRIES



8.0 mil  
295 mm (± 5 mm)

### TECHTION® XPERT NITRO HRX8 ONEPRO

Long-cuffed Nitrile disposable gloves with enhanced chemical resistance without compromising comfort and dexterity.

#### STANDARDS

EN374-1:2016 /Type B

ENISO 374-5:2016



#### INDUSTRIES



**TECHTION**  
**NITRO MAX**  
 CHEMPRO

**Durable nitrile gloves that offers superior chemical protection.**

EN 388:2016  
 4101X

EN ISO 374-1:2016/  
 Type A  
 AJKLOT

EN ISO 374-5:2016

CE 0598

CAT III



**TECHTION® NEOLATEX CHEMPRO**

Heavyweight, bi-colour double-dipped natural rubber & neoprene gloves with reliable protection against a wide range of chemicals.

**STANDARDS**

EN388:2016 2120X

EN ISO 374-1 :2016 / Type A AKLMND

EN ISO 374-5:2016

**INDUSTRIES**



**TECHTION® NEO MAX CHEMPRO**

Heavy-duty neoprene latex blended gloves delivering good mechanical protection with wide range of chemical protection.

**STANDARDS**

EN388:2016 3121X

EN ISO 374-1 :2016 / Type A AKLMNDP

EN ISO 374-5:2016

**INDUSTRIES**



**INDTOUCH RUBBER**

Medium duty latex flock-lined gloves offering great comfort. Best suited for industrial and general purpose.

**STANDARDS**

CE

CAT I

**INDUSTRIES**



**TECHTION® SHIELD EXTREME CHEMPRO**

Durable, oil and chemical resistant, double-dipped PVC coating ensures grip and increases the glove's abrasion resistance and durability.

**STANDARDS**

EN388:2016 4121X

EN ISO 374-1 :2016 / Type A AKLMPST

EN ISO 374-5:2016 VIRUS

**INDUSTRIES**



**FRONTIER**

**WELDER PLUS**

EN388



EN407



**Split leather with cotton lining.**  
**Available in Grey Colour.**



**FRONTIER® RIGGER PLUS - 10''**

Split leather, double palm, in grey & green Colour combination.

**STANDARDS**

EN388



3134

**INDUSTRIES**



**FRONTIER® RED ARC - 14''**

Split leather with cotton lining, available in red colour.

**STANDARDS**

EN388



EN407



**INDUSTRIES**



**FRONTIER® RIDER - 10''**

Grain leather, available in natural colour.

**STANDARDS**

EN388



**INDUSTRIES**



**FRONTIER® WELDER PRO - 14''**

Double palm split leather with cotton lining, In grey & yellow colour combination.

**STANDARDS**

EN388



EN407



**INDUSTRIES**



**FRONTIER® SAFE GUARD - 16''**

Split leather with cotton lining, In green & yellow colour combination.

**STANDARDS**

EN388



EN407



**INDUSTRIES**



**FRONTIER® APRON**

Split leather, available in grey colour.

**STANDARDS**

EN388



EN407



**60cm X 90cm**

**INDUSTRIES**



**FRONTIER® HEATPRO PLUS - 16''**

Double palm split leather with cotton lining, In blue & yellow colour combination.

**STANDARDS**

EN388



EN407



**INDUSTRIES**



**FRONTIER® LEG GUARD - 12''**

Split leather, available in grey colour.

**STANDARDS**

EN388



**INDUSTRIES**



**FRONTIER® THERMO PLUS - 14''**

Cut & heat resistant glove, kevlar thread stitched. Para aramid palm & woolen lined. In brown & yellow Colour combination.

**STANDARDS**

EN388



EN407



**INDUSTRIES**



**FRONTIER® ARM SLEEVE - 24''**

Split leather, available in grey colour.

**STANDARDS**

EN388



EN407



**INDUSTRIES**





**TECHTION**  
**ASTRA MP55**  
MULTIPRO

**55**  
GSM

Superior, breathable  
**microporous** laminated  
**Type 5/6** protective  
coverall, suitable for  
industrial light duty  
applications.

High MVTR  
for increased worker comfort

2-way zipper & Storm flap  
for comfort and extra protection

Strong triple-stitched seams  
help protects against tearing

Elastic in back  
to prevent ribs and  
tears when bending

Thumb loops  
to maintain glove  
and garment interface.

Ultra low-tint  
performance

Elastic wrists & ankles  
provides convinience  
and freedom of movements



CE 0624



Protective Clothing  
Category III

EN 1149-5  
:2008



EN 1073-2  
:2002



EN 14126  
:2003



EN 13034:2005  
+A1:2009/Type 5B  
EN ISO 13982-1:2004  
+A1:2010/Type 6B



PARTICULATES



LIQUIDS



BREATHABLE



ANTI-STATIC



**TECHTION**  
**ASTRA MP65**  
MULTIPRO

**65**  
GSM

Durable yet breathable  
**microporous** laminated  
**Type 5/6** protective  
coverall, suitable for  
industrial light to medium  
duty applications.

High MVTR  
for increased worker comfort

2-way zipper & Storm flap  
for comfort and extra protection

Strong triple-stitched seams  
help protects against tearing

Elastic in back  
to prevent ribs and  
tears when bending

Thumb loops  
to maintain glove  
and garment interface.

Ultra low-tint  
performance

Elastic wrists & ankles  
provides convinience  
and freedom of movements



CE 0624



Protective Clothing  
Category III

EN 1149-5  
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:2002



EN 14126  
:2003



EN 13034:2005  
+A1:2009/Type 5B  
EN ISO 13982-1:2004  
+A1:2010/Type 6B



PARTICULATES



LIQUIDS



BREATHABLE



ANTI-STATIC



# Disposable Respirator Selection Chart

Basic Condition for Usage	Nature of the Contaminant	Type of Contaminant	NPF (Nominal Protection Factor)	Specification of Disposable Mask	
Oxygen Concentration > 19.5 %	Particulate Matter (Respirable Suspended Particulate Matter - Can be in Solid (Dust), Liquid (Mist) or Combination of both)	Solid Particles	NPF : 1-4	FFP1S	
			NPF: 4-12	FFP2S	
			NPF 12-50	FFP3S	
		Liquid Particles & Mix of Solid Particles	NPF: 1-12	FFP2 SL	
			NPF 12-50	FFP3 SL	
			NPF: 1-12	Welding Applications	FFP2 S/SL With Flame Retardant Layer
			NPF: 1-12	Mild Odours	FFP2 S/SL With Activated Carbon Layer
			NPF: 1-12	Heavy Dust Areas	FFP2 S/SL with Certified Dolomite Performance



## TECHTION® SPIRO PRIME P2V MULTIPRO

Single pull adjustable strap P2 class respirator offering protection against dust and mist.

### FEATURES

- > Protection against - Solid & liquid particles
- > Nose clip - Adjustable & invisible
- > Exhalation valve - Valved
- > Strap options - Adjustable headband
- > Nose foam - Yes
- > Colour options -

### INDUSTRIES



## TECHTION® SPIRO MAX P2V MULTIPRO

Flat fold (NR) respirator offering P2 class protection against dust and mist.

### FEATURES

- > Protection against - Solid & liquid particles
- > Nose clip - Adjustable & invisible
- > Exhalation valve - Valved
- > Strap options - Adjustable headband
- > Nose foam - Yes
- > Colour options -

### INDUSTRIES



## TECHTION® SPIRO ACTIV P2 MULTIPRO

Lightweight, FFP2 class NR foldable mask for the superior protection against dust and mist.

### FEATURES

- > Protection against - Solid & liquid particles
- > Nose clip - Adjustable & invisible
- > Exhalation valve - Unvalved
- > Strap options - Headband / Fixed earloop
- > Nose foam - Nil
- > Colour options -

### INDUSTRIES



## TECHTION® SPIRO FFP3V MULTIPRO

Lightweight ISI Certified P3 class mask that offer superior comfort, fit and protection.

### FEATURES

- > Protection against - Solid & liquid particles
- > Nose clip - Adjustable (External)
- > Exhalation valve - Valved
- > Strap options - Adjustable headband
- > Nose foam - Yes
- > Colour options -

### INDUSTRIES



\*S - Solid | L - Liquid | NR - Non Reusable (applicable only for EN149 certified)

## DISPOSABLE RESPIRATOR



## TECHTION® XPERT HYMASK ONEPRO

EN approved surgical disposable mask which filters greater than 98% of exhaled bacteria.

### FEATURES

- > Low breathing resistance
- > Latex free
- > Invisible nose clip
- > Reinforced earloop

### INDUSTRIES





### TECHTION® SPIRO FUSION P1 MULTIPRO

P1 class foldable mask with excellent fit and comfort.

#### FEATURES

- > Protection against - Solid particles
- > Nose clip - Adjustable & invisible
- > Exhalation valve - Nil
- > Strap options - Adjustable headband / Fixed earloop
- > Nose foam - Nil
- > Colour options - ■ ■ ■



#### INDUSTRIES



### TECHTION® SPIRO SPIRIT P2VD MULTIPRO

Premium P2 class mask offering utmost comfort and best in class protection against Heavy dust.

#### FEATURES

- > Protection against - Solid particles
- > Nose clip - Embedded Plastic
- > Exhalation valve - Valved
- > Strap options - Elasticated Headband With Adjustable Bead
- > Nose foam - Nil
- > Colour options - ■ ■ ■



#### INDUSTRIES



### TECHTION® SPIRO FUSION P2/P2V MULTIPRO

P2 class foldable mask with best comfort and fit offering low breathing resistance.

#### FEATURES

- > Protection against - Solid particles
- > Nose clip - Adjustable & invisible
- > Exhalation valve - valved
- > Strap options - Adjustable headband / Fixed earloop
- > Nose foam - Nil
- > Colour options - ■ ■ ■



#### INDUSTRIES



### TECHTION® SPIRO FRP2 VC WELDPRO

Premium P2 class mask offering best in class protection and comfort. Suitable for welding and grinding applications.

#### FEATURES

- > Protection against - Solid, liquid & welding spatters
- > Nose clip - Adjustable & invisible
- > Exhalation valve - Valved
- > Strap options - Adjustable headband
- > Nose foam - Yes
- > Colour options - ■ ■ ■



#### INDUSTRIES



### TECHTION® SPIRO GUARD P2V MULTIPRO

Pre-formed cup shape valved respirator offering P2 class protection and foam seal at nose bridge provides comfort.

#### FEATURES

- > Protection against - Solid particles
- > Nose clip - Adjustable
- > Exhalation valve - Valved
- > Strap options - Adjustable headband
- > Nose foam - Yes
- > Colour options - ■ ■ ■



#### INDUSTRIES



### FRONTIER GRIT + V

P1 class foldable mask with good fit and comfort.

#### FEATURES

- > Protection against - Solid particles
- > Nose clip - Adjustable & invisible
- > Exhalation valve - valved
- > Strap options - Elasticated with adjustable bead
- > Nose foam - Nil
- > Colour options - ■ ■ ■



#### INDUSTRIES



### FRONTIER GRIT PRO

ISI certified P1 class foldable mask with good fit and comfort.

#### FEATURES

- > Protection against - Solid particles
- > Nose clip - Adjustable & invisible
- > Exhalation valve - Nil
- > Strap options - Elasticated with adjustable bead
- > Nose foam - Nil
- > Colour options - ■ ■ ■



#### INDUSTRIES



### FRONTIER GRIT MAX

ISI certified P1 class foldable mask with good fit and comfort.

#### FEATURES

- > Protection against - Solid particles
- > Nose clip - External
- > Exhalation valve - Nil
- > Strap options - TPE elastic headband
- > Nose foam - Nil
- > Colour options - ■ ■ ■



#### INDUSTRIES



### TECHTION® XPERT MASK ONEPRO

Disposable surgical masks > 98% BFE.

#### FEATURES

- > Low breathing resistance
- > Latex free
- > Invisible nose clip
- > Reinforced earloop

#### INDUSTRIES



IS 16289



CML/L - 6500046608



## Re-Usable Selection Chart

Basic Condition for Usage	Nature of the Contaminant	Nature	Device	Recommended Respiratory Protective Device
Oxygen Concentration > 19.5 %	Gaseous Contaminants	Gases Irritating to Eyes/Eye Injury Risk	Face Piece	Full Face Mask
		Gases Non Irritating to Eyes		Half Face Mask
		Organic Gases	Gas Filter Cannister	A Type Cannisters
		Inorganic Gases		B Type Cannisters
		Acidic Gases		E Type Cannisters
		Ammonia Gas		K Type Cannisters
		Mix of Gases		ABEK Type Cannisters

\*Particulate Matter (Repairable Suspended Particulate Matter in Solid and Liquid Form) Alongwith Gaseous Contaminants.

\*use appropriate pre filters along with the correct cannisters - refer disposable mask selection guide to select the appropriate prefilter as per rspm (respirable Suspended particulate matter) npf (nominal protection factor) value.

## REUSABLE RESPIRATOR

### TECHTION® SPIRO FFM / HFM MASKS

Reusable respirators offering protection from harmful gases, vapors and mix of particulate perils in industries.



SPIRO HFM 600



SPIRO FFM 680



SPIRO HFM 700



SPIRO GF 401



SPIRO GF 403



SPIRO GF 404



SPIRO GF 406



EN 140: 1998 - Class 3

Description	SPIRO GF 401	SPIRO GF 403	SPIRO GF 404	SPIRO GF 406
<b>Class</b>	A1	A1E1	K1	ABEK1
<b>Protection Type</b>	Organic Vapor	Organic Vapor/Acid Gas	Ammonia	Multi gas and Vapor
<b>Material</b>	Carbon	Carbon	Carbon	Carbon
<b>Connection Type</b>	Bayonet	Bayonet	Bayonet	Bayonet
<b>Product series</b>	SPIRO HFM 600	SPIRO HFM 600	SPIRO HFM 600	SPIRO HFM 600
	SPIRO HFM 700	SPIRO HFM 700	SPIRO HFM 700	SPIRO HFM 700
	SPIRO FFM 680	SPIRO FFM 680	SPIRO FFM 680	SPIRO FFM 680



SPIRO PFH 401 + SPIRO PF 411  
Pre-Filter Holder Pre-Filter



Premium **lightweight** safety helmet with **vented shell** provides **comfort, fit** and **superior protection**. Available in wide range of colours and harness options.

# GUIDE TO STANDARD - SAFETY HELMETS

# ANSI | EN | IS

Impact Resistance			
Determines the capability of a Safety Helmet to withstand and absorb the energy of a standard Impact that is caused by a standard striker happens on the top of helmet			
Description	ANSI Z 89.1	EN 397	IS 2925
Terminology	Force Transmission	Shock Absorption	Shock Absorption Resistance
Striker Weight	3.6 KG	5KG	3 KG
Drop Height	1.5 Meter	1 Meter	1.5 Meter
Test Pass Criteria (Resultant Energy Max)	4450 N	5000 N	5000 N
Pre Test Conditioning	Hot, Cold, Wet	Hot,Cold,Wet, Artificial Ageing	Hot, Cold, Running Water

Penetration Resistance			
Determines the capability of a Safety Helmet to withstand a standard impact that is caused by a standard pointed striker on top of the helmet			
Description	ANSI Z 89.1	EN 397	IS 2925
Terminology	Apex Penetration	Resistance to Penetration	Penetration Resistance
Striker Weight	1 KG	3 KG	0.5 KG
Striker Angle	60 Degree, Tip Radius 0.25mm	60 Degree, Tip Radius 0.5mm	36 Degree, Tip Radius 0.5mm
Drop Height	2.5 Meter	1 Meter	3 Meter
Test Pass Criteria	Striker shall not make Contact with top of test headform.	Striker shall not make Contact with top of test headform.	Helmet Should Not Break, Depth of dent formed Should be less than 10mm
Pre Test Conditioning	Hot, Cold, Wet	Hot, Cold, Wet, Artificial Ageing	Hot, Cold, Running Water

Flame Resistance			
Determines the Capability of a Safety Helmet to withstand the effect of standard flame and to assess its self extinguishing property			
Description	ANSI Z 89.1	EN 397	IS 2925
Terminology	Flammability	Flame Resistance	Flammability Resistance
Flame Height	50mm	45mm	150mm
Flame Temperature	800-900 Deg C	Not Defined	Flame should be able to Melt a 0.71mm copper Wire in 6 secs
Exposure Time	6 Seconds	10 Seconds	10 Seconds
Test Pass Criteria	No Burning after 5 seconds of removal from flame	No Burning after 5 seconds of removal from flame	No Burning after 5 seconds of removal from flame
Pre Test Conditioning	NA	Helmet used for Shock Absorption test shall be used	NA

Electrical Resistance			
Determines the Capability of a Safety Helmet to offer insulation against high voltages			
Description	ANSI Z 89.1	EN 397	IS 2925
Terminology	Electrical Insulation Requirements	Electrical Properties	Electrical Resistance
Test Voltage			2000 V
Voltage Application Time	Optional Requirement For Class G and Class E Helmets	Optional Requirement	1 Minute
Test Pass Criteria			Leakage current < 3 mA
Conditioning			18-24 Hrs in 6gm/l of Salt Solution in water

Chin Strap Strength			
Determines the Load that the Chinstrap and Anchorages can withstand			
Description	ANSI Z 89.1	EN 397	IS 2925
Terminology		Chin Strap anchorages	Strength of Chin Strap
Load Applied	Not Required for Type-1 Helmets	150 N to 250 N @ 20 N/m	10 KGf
Pass Criteria		Strap Should withstand upto 150 N and Break between 151 N & 250 N	Strap Should Not Break in 15 minutes

Heat Resistance			
Determines Capability of the Shell to Withstand high temperature			
Description	ANSI Z 89.1	EN 397	IS 2925
Terminology			Heat Resistance
Temperature	Not Assessed	Not Assessed	93 Deg C
Time			15 Minutes
Test Pass Criteria			Shell Should not Separate, Distort Or Soften

Water Absorption Resistance			
Evaluates Hemet for Water absorbing Nature			
Description	ANSI Z 89.1	EN 397	IS 2925
Terminology			Water Absorption
Test Condition	Not Assessed	Not Assessed	Immersing 24 Hrs In water
Test Pass Criteria			Average gain in mass Should be less Than 5% of original weight

Data tabulated above covers key performance requirements of TOP IMPACT Helmets. Please refer the corresponding standards for detailed understanding.



6 point Nylon suspension



"Turn-n-Lock" Wheel Ratchet



# TECHTION® ORBIT GOLD MULTIPRO

Premium Safety helmets with "Turn-n-Lock" wheel rotary ratchet system for a tailored fit.



ANSI/ISEA Z89.1-2014

IS 2925: 1984



CML - 6500003089

<b>Shell</b>	HDPE
<b>Harness</b>	Nylon
<b>Sweat Band</b>	Perforated PU Sheet with Foam Backer
<b>Chin Strap</b>	Textile Webbing
<b>Circumference range</b>	520 - 600 mm
<b>Adjustment</b>	"Turn-n-Lock" Wheel Ratchet

Available Colours



## TECHTION® ORBIT MULTIPRO

IS 2925: 1984



ANSI/ISEA Z89.1-2014



CML - 6500003089



<b>Shell</b>	HDPE
<b>Harness</b>	LDPE
<b>Sweat Band</b>	Laminated Foam
<b>Chin Strap</b>	Textile Webbing
<b>Circumference range</b>	520 - 600 Mm
<b>Adjustment</b>	Wheel Ratchet

Available Colours



## TECHTION® ORBIT PLUS MULTIPRO

IS 2925: 1984



ANSI/ISEA Z89.1-2014



CML - 6500003089



<b>Shell</b>	HDPE
<b>Harness</b>	LDPE
<b>Sweat Band</b>	Laminated Foam
<b>Chin Strap</b>	Textile Webbing
<b>Circumference range</b>	520 - 600 Mm
<b>Adjustment</b>	Pinlock

Available Colours



## VALPRO® COMMANDER

IS 2925: 1984



CML - 6500003089



<b>Shell</b>	HDPE
<b>Harness</b>	LDPE
<b>Sweat Band</b>	Laminated Foam
<b>Chin Strap</b>	Textile Webbing
<b>Circumference range</b>	520 - 600 Mm
<b>Adjustment</b>	Pinlock

Available Colours



## VALPRO® COMMANDER PLUS

IS 2925: 1984



CML - 6500003089



<b>Shell</b>	HDPE
<b>Harness</b>	LDPE
<b>Sweat Band</b>	Laminated Foam
<b>Chin Strap</b>	Textile Webbing
<b>Circumference range</b>	520 - 600 Mm
<b>Adjustment</b>	Wheel Ratchet

Available Colours



## VALPRO® RANGER PLUS

IS 2925: 1984



ANSI/ISEA Z89.1-2014



CML - 6500003089



<b>Shell</b>	HDPE
<b>Harness</b>	LDPE
<b>Sweat Band</b>	Laminated Foam
<b>Chin Strap</b>	Textile Webbing
<b>Circumference range</b>	520 - 600 Mm
<b>Adjustment</b>	Wheel Ratchet

Standard Colours Customized Colours



## VALPRO® GUARDIAN

IS 2925: 1984

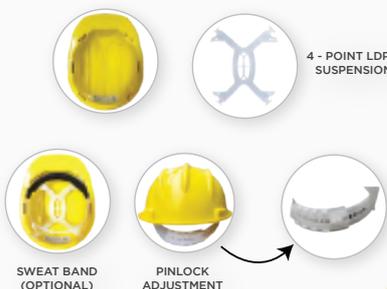


CML - 6500003089



<b>Shell</b>	HDPE
<b>Harness</b>	LDPE
<b>Sweat Band</b>	-
<b>Chin Strap</b>	Textile Webbing
<b>Circumference range</b>	520 - 600 Mm
<b>Adjustment</b>	Pinlock

Standard Colours Customized Colours



# VALPRO® WARRIOR

Light weight helmet for comfort, designed for universal fit

<b>Shell</b>	HIGH IMPACT CROSS LINKED POLYMER
<b>Harness</b>	LDPE
<b>Sweat Band</b>	(Optional)
<b>Chin Strap</b>	Textile Webbing
<b>Circumference range</b>	520 - 600 Mm
<b>Adjustment</b>	Pinlock

IS 2925:1984



CML - 6500003089

Standard Colours

Customized Colours





IS 2925:1984



CML - 6500003089



ANSI/ISEA Z89.1-2014



**“Premium Safety Helmets designed to comply multiple regulatory standards”**

### MADE TO LAST!

“Reliable and durable safety helmets made using high impact virgin polymers on best of class japanese precision machineries”.

### COMFORT + FIT

A lightweight and ventilated design that is ideal for long duration usage.

Six point suspension system provides snugged fit & comfort.

### STABILITY + BALANCE

Orbit Series safety helmets offer ergonomically correct, true center of gravity head protection that feels lighter and more stable.

### PERFORMANCE + SAFETY

Premium HDPE shell.Orbit series helmets are offered complying to, and certified as per European Standard – EN 397: 2012, Indian Standard – IS 2925 and American Standard – ANSI/ISEA Z89.1-2014.

### 3-POINT DEPTH ADJUSTMENT

The harness features unique 3 point depth option enabling user to select precise fit as per their comfort.

### ENHANCED STRENGTH

**Triple Ribbed** shell provides additional reinforcement and aesthetic appeal.

### COMPATIBILITY+ CONVENIENCE

Universal 30 mm accessories slots for to accommodate wide range of accessories like ear muff, face shield etc.



# GUIDE TO STANDARD EN166

## EUROPEAN STANDARD ON PERSONAL EYE PROTECTION

### BASIC MARKINGS



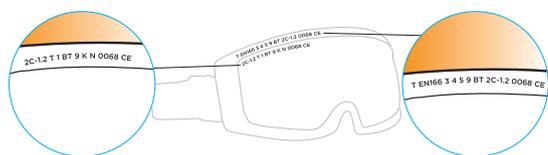
#### Example Of Marking Identification On The Lens

<b>2C-1.2</b>	<b>T</b>	<b>1</b>	<b>FT</b>	<b>KN</b>	<b>CE</b>
Scale number (code number - shade number)*	Brand (Techtion)	Optical Class	Mechanical resistance	Optional requirement	

\* The scale number for welding filters is only represented by the shade number

#### Example Of Marking Identification On The Frame

<b>T</b>	<b>EN166</b>	<b>FT</b>	<b>CE</b>
Brand (Techtion)	Standard re.	Symbol for mechanical strength	



#### Example Of Marking Identification On The Lens

<b>2C-1.2</b>	<b>T</b>	<b>1</b>	<b>BT</b>	<b>9</b>	<b>KN</b>	<b>0068</b>	<b>CE</b>
Scale number (code number - shade number)*	Brand (Techtion)	Optical Class	Mechanical resistance	Field of use	Optional requirement	Notified Body number only for PPE belonging to Cat. III	

\* The scale number for welding filters is only represented by the shade number

#### Example Of Marking Identification On The Frame

<b>T</b>	<b>EN166</b>	<b>3 4 5 9</b>	<b>BT</b>	<b>2C-1.2</b>	<b>0068</b>	<b>CE</b>
Brand (Techtion)	Standard re.	Fields of use	Mechanical resistance	Filter compatible with the frame	Notified Body number only for PPE belonging to Cat. III	

SPECTACLE

GOGGLE

MEANINGS OF EN MARKING

Scale Number				Optical Class		Protection Against High Speed Particles									
Code Number		Shade number and typical lens colours		No.	Type	Mechanical resistance	Impact level	Impact speed	Diameter	Grams	Spectacles	Goggles	Face shields		
2	Ultraviolet (UV)	1.2	Clear	1	Permanent wear	A (T)	High energy impact	190 m/s	ø 6 mm	0.86			✓		
2C	UV with good colour recognition	1.7	In/Out, yellow, clear mirrored, UVR	2	Occasional wear	B (T)	Medium energy impact	120 m/s					✓		✓
4	Infra-red (IR)	2.5	Brown, smoke	3	Brief wear	F (T)	Low energy impact	45 m/s					✓	✓	✓
5	Sunglare filter without infra-red specification	3.1	G15, smoke mirrored			S	Increased robustness	5.1 m/s	ø 22 mm	43	✓	✓	✓		
6	Sunglare filter with infra-red specification	3,4, 5,...11	Welding												

(T) if the impact letter (F, B or A) is followed by the letter T, then the eyewear protects against impact at extreme temperatures (-5°/ +55°C)

Welding products do not require a code number

#### Fields Of Use - Additional Markings Which Can Be Found On Frame

Symbol	Designation	Description of the field of use	Spectacles	Goggles	Face shield
No Symbol	Basic use	Unspecified mechanical hazards and hazards arising from ultraviolet, visible, infra-red and sun radiation	✓	✓	✓
3	Liquids	Liquids (droplets or splashes)		✓	✓
4	Large dust particles	Dust with a particle size > 5 Qm		✓	
5	Gas and fine dust particles	Gases, vapours, sprays, smoke and dust with a particle size < 5 Qm		✓	
8	Short circuit electric arc	Electrical arc due to a short circuit in electrical equipment			✓
9	Molten metals and hot solids	Splashes of molten metals and penetration of hot solids		✓	✓



**TECHTION**  
MADE TO LAST!

- TECHTION® OPTEC ULTRA MULTIPRO
- TECHTION® OPTEC HARDY MULTIPRO
- TECHTION® OPTEC SNIPPER MULTIPRO
- TECHTION® OPTEC GLADIATOR MULTIPRO
- TECHTION® OPTEC AIR MULTIPRO (16g)
- TECHTION® OPTEC REFLEX MULTIPRO
- TECHTION® OPTEC HARDY PLUS

**FRONTIER**

- FRONTIER® HARDY
- FRONTIER® HURRICANE
- FRONTIER® ET30
- FRONTIER® XPRESS
- FRONTIER® PILOT ACF
- FRONTIER® SHIELD

**VALPRO**  
SAFE AT WORK

- VALPRO® COMMANDER
- VALPRO® HARDY
- VALPRO® PROTECTOR ID

**ANSI**  
ANSI/ISEA Z87.1-2010

**CE** EN166: 2001

IS 5983  
**IS**  
CML : 7800030109

HEARING PROTECTION

**CE** EN352

- TECHTION® AUTIC P DISPENSER MULTIPRO (32 dB) [EN352-2]
- TECHTION® AUTIC EXTREME MULTIPRO (34 dB) [EN352-1]
- TECHTION® AUTIC ULTRA FLEX MULTIPRO (32 dB) [EN352-1]
- TECHTION® AUTIC ULTRA MOUNT MULTIPRO (30 dB) [EN352-3]
- VALPRO® GUARDIAN EARMUFF (27 dB) [EN352-1]



[www.midassafety.in](http://www.midassafety.in)



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