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# **Catalog of Services**

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# ***PPE Standards***

## **ANSI Z87.1-2010**

### **ANSI Z87.1-2010 Spectacles**

<b>Type</b>	<b>Qty</b>
General Requirements	9
Wire Screen Lens General Requirements	15

### **ANSI Z87.1-2010 High Impact Spectacles**

<b>Type</b>	<b>Qty</b>
Base Model	15
Base Model with Lens Carrier	15
Variant	15
Rx Frame Test	14

### **ANSI Z87.1-2010 Goggles - General Requirements**

<b>Type</b>	<b>Qty</b>
Full Report	6

### **ANSI Z87.1-2010 Goggles - Screen Lens General Requirements**

<b>Type</b>	<b>Qty</b>
Full Report	11

### **ANSI Z87.1-2010 High Impact Goggles**

<b>Type</b>	<b>Qty</b>
Base Model	15
Base Model with Lens Carrier	15
Variant	15
Screen Lens	11

### **ANSI Z87.1-2010 Faceshields - General Requirements**

<b>Type</b>	<b>Qty</b>
Full Report	6

### **ANSI Z87.1-2010 Faceshields**

<b>Type</b>	<b>Qty</b>
Base Model	15
Wire-Screen Window Base Model	15
Window Variant	15

### **ANSI Z87.1-2010 Faceshields - Individual Tests**

<b>Type</b>	<b>Qty</b>
Impact Tests	15

# ***PPE Standards***

## **ANSI Z87.1-2010**

### **ANSI Z87.1-2010 Individual Tests**

<b>Type</b>	<b>Qty</b>
Optical Quality	1
Luminous Transmission	1
Haze	1
Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors	1
Drop Ball Impact Resistance	4
Ignition	1
Corrosion Resistance of Metal Components	1
Minimum Coverage Area	1
Minimum Lens Thickness	1
Marking Requirements	1
High Mass Impact	4
High Velocity Impact	6
Penetration Test	4
Lateral (Side) Coverage	1
Ventilation	1
Transmittance of Housings	1
Welding Helmet Non-Lens Area Transmittance	1
Goggle Droplet and Splash Hazard	1

### **ANSI Z87.1-2010 High Impact Prescription Lens Mounting Qualification**

<b>Type</b>	<b>Qty</b>
Lens Mounting Qualification	10

### **ANSI Z87.1-2010 High Impact Prescription Lens Material Qualification**

<b>Type</b>	<b>Qty</b>
Lens Material Qualification	4

### **ANSI Z87.1-2010 Optional Transmittance Attributes**

<b>Type</b>	<b>Qty</b>
Infrared Filter	1
Ultraviolet Filter	1
UV, Visible	1
Visible Filter	1
Welding Filter	1

### **ANSI Z87.1-2010 Static Welding Filter - Glass**

<b>Type</b>	<b>Qty</b>
ANSI Z87.1-2010 Static Welding Filter - Glass	5

# ***PPE Standards***

## **ANSI Z87.1-2010**

### **ANSI Z87.1-2010 Automatic Darkening Welding Filters Transmittance**

<b>Type</b>	<b>Qty</b>
Darkest Dark State	3
Lightest Dark State	1

### **ANSI Z87.1-2010 Welding Helmet w/ ADF**

<b>Type</b>	<b>Qty</b>
ADF Variant	15
Base Model	15

### **ANSI Z87.1-2010 Welding Helmet Shell Tests**

<b>Type</b>	<b>Qty</b>
Full Report	14

### **ANSI Z87.1-2010 Welding Helmet - Hard Hat Mounting**

<b>Type</b>	<b>Qty</b>
Full Report	14

### **ANSI Z87.1-2010 Automatic Darkening Welding Filter Requirements**

<b>Type</b>	<b>Qty</b>
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# ***PPE Standards***

## **ANSI Z89.1-2009 (Revised in 2014)**

### **ANSI Z89.1-2009 Type I, Class C**

<b>Type</b>	<b>Qty</b>
Full Report	30

### **ANSI Z89.1-2009 Type I, Class E**

<b>Type</b>	<b>Qty</b>
Full Report	30

### **ANSI Z89.1-2009 Type I, Class G**

<b>Type</b>	<b>Qty</b>
Full Report	30

### **ANSI Z89.1-2009 Type I Reverse Wearing**

<b>Type</b>	<b>Qty</b>
Full Report	6

### **ANSI Z89.1-2009 Type II, Class C**

<b>Type</b>	<b>Qty</b>
Full Report	30

### **ANSI Z89.1-2009 Type II, Class E**

<b>Type</b>	<b>Qty</b>
Full Report	30

### **ANSI Z89.1-2009 Type II, Class G**

<b>Type</b>	<b>Qty</b>
Full Report	30

### **ANSI Z89.1-2009 Type II Reverse Wearing**

<b>Type</b>	<b>Qty</b>
Full Report	12

### **ANSI Z89.1-2009 Electrical Insulation, Class E, Type I and II Helmets**

<b>Type</b>	<b>Qty</b>
Full Report	2

### **ANSI Z89.1-2009 Electrical Insulation, Class G, Type I and II helmets**

<b>Type</b>	<b>Qty</b>
Full Report	2

### **ANSI Z89.1-2009 Low Temperature**

<b>Type</b>	<b>Qty</b>
Type I	12
Type II	12

# ***PPE Standards***

## **CAN/CSA Z94.3-07 (Reaffirmed 2012)**

### **CAN/CSA Z94.3-07 Class 1 (Spectacle)**

<b>Type</b>	<b>Qty</b>
Base Model - Clear Lens	12
Base Model - Filter Lenses	12
Base Model - Filter Plate (Single Lens)	12
Base Model - Special Purpose Lens	12
Lens Variant - Clear Lens	12
Lens Variant - Filter Lens	12
Lens Variant - Special Purpose Lens	12
Frame Variant	12

### **CAN/CSA Z94.3-07 Class 2 (Goggle)**

<b>Type</b>	<b>Qty</b>
Base Model - Clear Lens	12
Base Model - Filter Lens	12
Base Model - Special Purpose Lens	12
Lens Variant - Clear Lens	12
Lens Variant - Filter Lens	12
Lens Variant - Special Purpose Lens	12
Frame Variant	7

### **CAN/CSA Z94.3-07 Class 3 (Welding Helmet) Base Model Static Filter**

<b>Type</b>	<b>Qty</b>
Full Report	7

### **CAN/CSA Z94.3-07 Class 3 (Welding Helmet) Shell Test**

<b>Type</b>	<b>Qty</b>
CSA Z94.3-07 Class 3 (Welding Helmet) Shell Test	7

### **CAN/CSA Z94.3-07 Class 3 (Welding Helmet) Shell Headgear Test**

<b>Type</b>	<b>Qty</b>
CSA Z94.3-07 Class 3 (Welding Helmet) Shell Headgear Test	7

### **CAN/CSA Z94.3-07 Class 3 Static Filter**

<b>Type</b>	<b>Qty</b>
Filter Only	1
With Welding Helmet	7



# ***PPE Standards***

## **CAN/CSA Z94.3-07 (Reaffirmed 2012)**

### **CAN/CSA Z94.3-07 Class 3 ADF**

<b>Type</b>	<b>Qty</b>
2 Dark States	9
3 Dark States	9
4 Dark States	9
5 Dark States	9
6 Dark States	9
7 Dark States	9
Single Dark State	9

### **CAN/CSA Z94.3-07 Class 4 (Welding Hand Shields) Base Model**

<b>Type</b>	<b>Qty</b>
Full Report	7

### **CAN/CSA Z94.3-07 Class 6 (Faceshield)**

<b>Type</b>	<b>Qty</b>
Base Model - Clear Window	12
Base Model - Filter Window	12
Base Model - Special Purpose	12
Crown Test	7
Window Variant - Clear Window	12
Window Variant - Filter Window	12
Window Variant - Special Purpose	12

# ***PPE Standards***

## **CAN/CSA Z94.3-07 (Reaffirmed 2012)**

### **CAN/CSA Z94.3-07 Individual Tests**

<b>Type</b>	<b>Qty</b>
Chin Protection	1
Class 2 Field of View	1
Cover Lens/Plates Size	1
Crown Protection	1
Field of View (Respirator)	1
Filter Lens/Plates Size	1
Flame Resistance	1
Haze	1
Hood Transmittance	1
Ignition Resistance	1
Ignition Resistance and Flame Resistance	1
Impact Resistance	12
Impact Resistance Class 2 to 7	7
Lift-Front Assembly	1
Luminous Transmittance	1
Markings	1
Minimum Frontal Coverage	1
Non-Ionizing Radiation Protection	3
Optional Lift-Front Attachment	1
Permanence of Filters	3
Prismatic Deviation	1
Residual Power	1
Resolving Power	1
Side Protection	1
Stitched Seem Inspection	1
Ventilation Opening Class 2A Goggle	1
Ventilation Opening Class 2B Goggle	1
Welders' and Cutters' Models	3
Window Contour	1
Window Opening Size	1

### **CAN/CSA Z94.3-07 Optical Properties**

<b>Type</b>	<b>Qty</b>
All Classes	1

# ***PPE Standards***

## **CAN/CSA Z94.1-05**

### **CAN/CSA Z94.1-05 Type 1, Class C**

<b>Type</b>	<b>Qty</b>
Report with Data	6

### **CAN/CSA Z94.1-05 Type 1, Class E**

<b>Type</b>	<b>Qty</b>
Report with Data	6

### **CAN/CSA Z94.1-05 Type 1, Class G**

<b>Type</b>	<b>Qty</b>
Report with Data	6

### **CAN/CSA Z94.1-05 Type 1 Reverse Wearing**

<b>Type</b>	<b>Qty</b>
Report with Data	12

### **CAN/CSA Z94.1-05 Type 1 Reverse Wearing Submitted w/Base Model**

<b>Type</b>	<b>Qty</b>
Report with Data	12

### **CAN/CSA Z94.1-05 Type 2, Class C**

<b>Type</b>	<b>Qty</b>
Report with Data	6

### **CAN/CSA Z94.1-05 Type 2, Class E**

<b>Type</b>	<b>Qty</b>
Report with Data	6

### **CAN/CSA Z94.1-05 Type 2, Class G**

<b>Type</b>	<b>Qty</b>
Report with Data	6

### **CSA Z94.1-05 Type 2 Reverse Wearing**

<b>Type</b>	<b>Qty</b>
Report with Data	12

### **CAN/CSA Z94.1-05 Type 2 Reverse Wearing Submitted w/ Base Model**

<b>Type</b>	<b>Qty</b>
Report with Data	12

# ***PPE Standards***

## **EN 166:2001**

### **EN 166:2001 Basic Requirements**

<b>Type</b>	<b>Qty</b>
Base Model Clear/Tinted/Polarized Lens	18
First Lens Variant Mirror/Coated	18
First Lens Variant Tinted	18
Additional Lens Variant(s)	6

### **EN 166:2001 Individual Tests**

<b>Type</b>	<b>Qty</b>
Diffusion of Light	3
Field of Vision	3
Frame Marking	3
General Construction	3
Head Bands	3
Increased Robustness	3
Information Supplied by the Manufacturer	3
Lateral Protection	3
Marking - General	3
Marking Where Frame and Occular Form a Single Unit	3
Materials	3
Minimum Robustness	8
Occular Marking	3
Protection Against Optical Radiation	3
Protection Against Large Dust Particles	3
Protection against high-speed particles (Low energy)	12
Protection against high-speed particles (Low energy) at Extremes of Temperatures	12
Protection against high-speed particles (Medium energy)	12
Protection against high-speed particles (Medium energy) at Extremes of Temperatures	12
Quality of Material and Surface	3
Resistance to Fogging of Oculars	4
Resistance to Corrosion	3
Resistance to Ignition	3
Resistance to Surface Damage by Fine Particles	3
Resistance to UV Radiation	3
Spherical, Astigmatic and Prismatic Refractive Powers	3
Stability at an Elevated Temperature	3
Transmittance	3

# ***Military Standards***

## **MIL-PRF-32432(GL)**

### **MIL-PRF-32432(GL) Abrasion**

Type	Qty
MIL-PRF-32432(GL) Abrasion	3

### **MIL-PRF-32432(GL) Adhesion**

Type	Qty
MIL-PRF-32432(GL) Adhesion	3

### **MIL-PRF-32432(GL) Ballistic Fragmentation**

Type	Qty
Class 1	10
Class 1a	10
Class 1 and 1a	24
Class 2	10
Class 2a	10
Class 2 and 2a	24
Class 3	10
Class 3a	10
Class 3 and 3a	24

### **MIL-PRF-32432(GL) Chemical Resistance**

Type	Qty
MIL-PRF-32432(GL) Chemical Resistance	24

### **MIL-PRF-32432(GL) Chromaticity**

Type	Qty
MIL-PRF-32432(GL) Chromaticity	3

### **MIL-PRF-32432(GL) Neutrality**

Type	Qty
MIL-PRF-32432(GL) Neutrality	3

### **MIL-PRF-32432(GL) Humidity**

Type	Qty
MIL-PRF-32432(GL) Humidity	3

# ***ASTM Standards***

## **ASTM F 659**

### **ASTM F 659 Individual Tests**

**Type**

Resistance to Fogging

**Qty**

4

# ***Misc Standards***

## **EN 174**

### **EN 174:2001 Individual Tests**

<b>Type</b>	<b>Qty</b>
Resistance to Fogging of Oculars	4