



**FLOWTRONIX (FT)**



# **EYE AND FACE PROTECTION**



Founded in 1990, **FLOWTRONIX (FT)** is a leading Manufacturer, Stockiest, Distributor and Supplier of the complete range of high quality Personal Protective Equipment (PPE) and safety solutions. We provide a diverse product portfolio for consolidated safety purchasing to our strategic end user clients, distribute products and services through our largest integrated network of resellers, retail stores and distribution centers.



## Personal Protective Equipment (PPE)

FT offers a full range of safety solutions for your professional needs. We offer high quality personal protective equipments which guarantee protection against wide range of risks associated with high degree of comfort for our users. We supply our products to all industrial sectors that need protective equipment for their manpower against all kinds of occupational hazards. FT work towards by implementing a total "Head-to-Toe" safety concept to the HSE standards by providing authentic, environment friendly and quality Personal Protective Equipment.

## **FT** SAFETY FIRST AT EVERY WORKPLACE

Serious injury or death in the workplace changes lives forever - for the families, friends, co-workers, employer and communities. That is why it is very important to apply Safety First philosophy in every workplace. Effective health and safety in your workplace can help keeping your employees happy and productive, at the same time reduces the human and business costs of injuries.

EYE AND FACE PROTECTION



Eye injuries in the workplace are very common. The National Institute for Occupational Safety and Health (NIOSH) reports that every day about 2,000 U.S. workers sustain job-related eye injuries that require medical treatment.

However, safety experts believe the right eye protection can lessen the severity or even prevent 90% of these eye injuries. Safety eyewears protect you against flying debris, chemical splashes, visible and near visible light or radiation from UV rays. Our safety glasses have modern designs that various features that will suit your needs.



# BETTER BE SAFE THAN SORRY



No matter where we work, flying particles, dusts, fumes, vapors or harmful rays are part to expose us to potential eye injury. Fortunately, we can protect against these hazards by using the appropriate protective eyewear for our jobs and by following our companies' established safety guidelines. The following is a guide to the most common types of protective eyewear and the specific hazards they can guard against.

## SAFETY GLASSES

Standard safety glasses look very much like normal glasses, but are designed to protect you against flying particles. Safety glasses have lenses that are impact resistant and frames that are far stronger than regular eyeglasses. Safety glasses must meet the standards of the American National Standards Institute (ANSI). Standard safety glasses can be equipped with side shields, cups, or tinted lenses to offer additional protection.

## SAFETY GOGGLES

Like standard safety glasses, goggles are impact resistant and are available in tinted lenses. Goggles provide a secure shield around the entire eye area to protect against hazards coming from many directions. Safety goggles may have regular or indirect ventilation. Goggles with indirect ventilation may be required if you are exposed to splash hazards.

## SHIELDS AND HELMETS

Face shields and helmets are not in themselves protective eyewear. But, they are frequently used in conjunction with eye protectors. Full-face shields are often used when you are exposed to chemicals, heat or glare hazards. Helmets are also used in conjunction with face shields when welding or working with molten materials.







**AVES**<sup>®</sup>

**ELVEX**<sup>®</sup>



## STANDARDS AND CHARACTERISTICS



**ANSI Z87.1-2010 (+)** - All AVES<sup>®</sup> safety glasses meet the ANSI Z87.1 standard.



**CE EN166** - The CE Marking on a product or machine identifies it as complying with all the safety requirements established by the European Union.



**Ballistic V0 rated** - Safety glasses that have been tested to the US Military standard MIL-PRF-31013 requirement of 640 feet per second.



**SuperCoat™ Protection** - Our unique SuperCoat™ protection provides industry leading washable anti-fog, anti-scratch, anti-static and UV protection to safety lenses.



**Anti Fog Coating** - Our standard level of anti-fog protection to ensure improved performance in all conditions.

## LENS PERFORMANCE AND TINT SPECIFICATIONS

Lens Style	UV Light Protection 180-380nm	High UV Protection 380-400nm	Blue Light Protection 400-480nm	Blue Light Protection 400-700nm	Infrared Protection 780-1100nm	Visible Light Transmission (VLT)	Applications/Benefits
<b>A</b> Amber	99.9%	99.9%	85%	74%	12%	86%	Blocks blue light for increased visual contrast
<b>C</b> Clear	99.9%	89%	6%	4%	8%	90%	Gen. purpose impact protection
<b>BB</b> Copper Blue Blocker	100%	100%	96%	96%	55%	16%	Sun glare reduction with 'blue blocking' properties
<b>G</b> Grey	99.9%	98%	76%	74%	45%	23%	Reduces sun glare and intense sunlight
<b>VO</b> Indoor/Outdoor	100%	100%	62%	55%	28%	50%	Gives 50% glare reduction for lighting conditions
<b>M</b> Silver Mirror	99.9%	96%	77%	75%	43%	23%	Reduces sun glare and intense sunlight
<b>WS3</b> Weld Shade 3	100%	99.9%	99.6%	97.9%	94%	11%	Torch brazing and light gas cutting
<b>WS5</b> Weld Shade 5	100%	100%	99.9%	99.7%	98%	1.6%	Torch brazing and light gas welding and cutting

## IDEAL APPLICATIONS



Oil and Gas



Rig Drilling



Petrochemicals



Metal, Steel and Mining



Power and Utilities



TeleCom



Freight Transport and Logistics



Construction



Pharmaceutical and Healthcare



# EYE AND FACE PROTECTION



EYE AND FACE PROTECTION





### AVES® FOAM LINED SAFETY GLASSES:

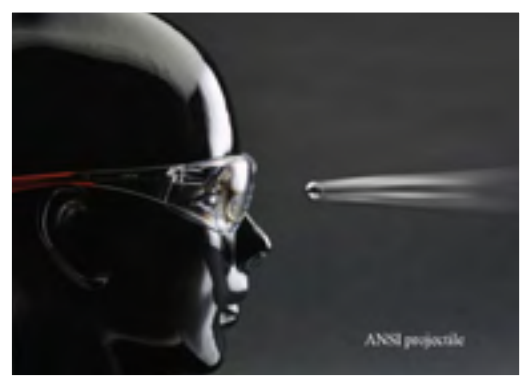
Industry leading models of foam lined safety glasses that combines the technology of the safety glass with goggle "like" protection. Offering a wide field of vision, comfort and maximum protection.

### BALLISTIC RATED EYEWEAR: 4X ANSI Z.87!

Ballistic Vo Rated safety glasses have been tested to the US Military standard MILPRF-31013 requirement of 640 feet per second, ANSI Z.87 (4x the standard). Whenever you see this symbol it designates the style is Ballistic Vo Rated.

### ULTRA LIGHT SAFETY GLASSES:

Aves® lightweight eyewear enables workers to wear them all day long, especially in hot and humid environments where the best solution is our 0.8 oz. ultra lightweight safety glasses.



EYE AND FACE PROTECTION



#### AV-GG40 | Art No: 6026AV100

AV-GG40 has impact resistant molded lens and its primary objective is to provide an extra measure of protection in dusty and dirty environments. Wind blown particles such as dust, sand, cement, chemicals can cause serious eye irritation and damage.



#### AV-GG45 | Art No: 6026AV101

AV-GG45 eye system offers choice, comfort and usage in multiple applications and environments. Use indoor or outdoor, protects against dust, sand, cement, chemicals, heat, humidity and more!



#### AV-GG55 | Art No: 6026AV383

AV-GG55 has the look and feel of an expensive sunglass at the fraction of the price! With AV-GG55 you get Comfort, Fit and Protection! This eyewear has removable and replaceable foam carrier.



#### AV-SG51 | Art No: 6026AV104

Introducing the New generation AV-SG51 with ventilated lens and V0 Ballistic Rating! Full wrap protection and durable design are ideal for harsh industrial environments.





## AV-SG55 | Art No: 6026AV121



AV-SG55 has wire core straight back temples with personalized shading and tension adjustment for all day comfort and non-slip eyewear retention. \*Tested to US Military Standard MIL-PRF-31013 Impact Test.



## AV-SG56 | Art No: 6026AV329



The AV-SG56 is full-featured protective eyewear that comes with a lifetime frame warranty! Easy replacement options. Replace the lens and save cost!



## AV-SG31 | Art No: 6026AV103



Provides the wearer with additional comfort from the brow guard and wraparound lens for uncompromised peripheral vision. The AV-SG31 sleek design delivers extended coverage with maximum protection, keeping debris and sweat from your eyes.



## AV-SG18 | Art No: 6026AV105



Wrap-around, uni-lens design offers full panoramic view and excellent side protection. AV-SG18 glasses are designed to fit a wide variety of facial sizes and configurations.



## AV-SG59 | Art No: 6026AV453



Increase protective eyewear compliance with AV-SG59. When workers who don't want to wear eyewear protection this is the answer. Extremely Comfortable. Secure Fit. Ultra-Light Eyewear! Weighs only 18 grams! ANSI Z87.1+



## AV-SG61 | Art No: 6026AV514



Today's trending style in tactical sunglasses frames with great fit and ballistic performance. Matte black frame color with form fitting soft padded temples for a secure fit. Proprietary FlexGrip™ nasal pads for a comfortable non-slip fit.





### AV-SG14 | Art No: 6026AV106

AV-SG14 safety glasses represent the lightest safety glass weighing only 0.8 oz. It has anti-fog coating protection to ensure improved performance in all conditions. Fits smaller faces and female faces.



### AV-SG200 | Art No: 602AV399

AV-SG200 offers 99.9% UV Protection and fits a broader range of faces. It offers large padded rubber saddle nose bridge and rubber insert temples that reduces slipping.



### AV-SG450 | Art No: 6026AV426

Lightweight, comfortable and affordable! A great choice in general purpose eye protection. With contoured temples that wrap around for better eye glass retention.



### AV-SG25 | Art No: 6026AV116

AV-SG25 safety glasses comes with universal nose bridge and adjustable temples. Tough Polycarbonate lenses are impact resistant and offer 99.9% protection against UV light (180-380 nm).



### AV-SG10 | Art No: 6026AV117

AV-SG10 is made from impact resistant Polycarbonate. Great economical visitor solution and fits over some prescription eyewear.



### AV-SG27 | Art No: 6026AV114

AV-SG27 is designed especially to be worn over prescription glasses.



### ECONOLITE III™ | Art No: 6026AV27

Econolite III safety eyewear has a nylon frame with adjustable Click-to-Fit temples. Seamlessly integrated side shields for unobstructed vision. One piece Polycarbonate Lens available in Clear or Gray, 100% U.V. protection.







### AV-SG37 | Art No: 6026AV115

A contemporary design with built-in side windows and rubber temples. Fits over medium sized prescription glasses measuring up to 5 3/4 inch (145 mm) wide.



### AV-GG30 | Art No: 2127AV127

AVES premium high performance goggles for splash, dust and mist. With extreme comfort and broad field of vision.



### AV-GG25 | Art No: 2127AV126

AV-GG25 is AVES product entry into more economical goggle market segment. In spite of it low price, this goggle offers a full range of features and benefits.



### SAFETY GOGGLE | Art No: 2127FT24

Lightweight-comfortable, made with high resistance polycarbonate lenses. Pliable plastic frame to fit over with prescription glasses.



### Detectable Safety Eyewears for the Food Industry!

These detectable safety eyewears are good for the food industry where it needs to detect any contamination that could get into in-process food.



### AV-SG57 BMDAF | Art No: 6026AV120

Provides lightweight 'Over the Glass' solution with metal detectable temples.



### AV-SG59 BMDAF | Art No: 6026AV453

Lightweight, most secure fitting and comfortable spectacles with metal detectable temples for excellent worker compliance.





## SAFETY GLASS STORAGE BAGS AND CORDS

Storage Bags help you protect your safety products and keep them at hand when you need them. Safety Glass Cords helps you keep your glasses at hand and allows you to secure the glasses to the face.



**AV-SGB20**  
Art No: 4965AV385



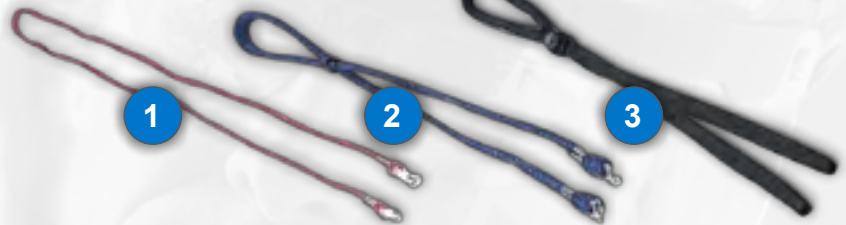
**AV-SGB10**  
Art No: 4965AV386



**AV-SGB5**  
Art No: 4965AV387



- 1. **AV-SGC10** | Art No: 93178AV390
- 2. **AV-SGC20** | Art No: 93178AV389
- 3. **AV-SGC30** | Art No: 93178AV388



EYE AND FACE PROTECTION

## SAFETY LENS CLEAN



**LENS CLEAN DISPOSABLE DISPENSER**  
Art No: 2010FT46

Removes the toughest film, grease, dirt and dries quickly. Includes 16 Oz spray pump silicone-free liquid cleaner and 1,520 large 6" x 5" heavy duty wet strength tissues. Anti-fog and anti-static.



**SAFETY CLEAN PRE-MOISTENED TOWELETTES**  
Art No: 2010FT47

Pre-moistened towelettes that are ideal for industrial, office or lab environments. Individually foil-packaged, 100 foil packets, and can be positioned close to workplace. Cleans and coats the lens with anti-fog and anti-static solution



**SAFETY EYEWASH STATION**



- AVE<sup>®</sup> Primary Eyewash Stations is designed specially to provide maximum flow and to ensure fast and effective aid
- Ideal for remote locations without access to continuous potable water.
- The container is made of high- density green polyethylene, which is light and durable that is best required for a portable unit
- Relocation is simple due to J-Shape Steel Wall Bracket that is easy to remove and re-mount
- Product includes: Bacteriostatic Additive, Test Log Card and Drainage Hose (3 ft)
- Replacement parts are available
- Meets ANSI Z358.1 Standards

**PRIMARY EYEWASH STATION (16 Gallons)**

**Art No: 2230FT21**

Quick one-step activation delivering 15 minute flow in less than 1 second

**PRIMARY EYEWASH STATION (6 Gallons)**

**Art No: 2230FT22**

Quick one-step activation delivering 6 minutes flow in less than 1 second



**15mins. flow**  
in less than 1sec.



**6mins. flow**  
in less than 1sec.

EYE AND FACE PROTECTION



## FACE SHIELD



Approx. **1800°F**  
Heat Tolerance



**265°F**  
Heat Tolerance

### FACE SHIELD - GOLD AV-FS18GL

Art No: 3417AV382

- Highly impact resistant and heat tolerant
- Material: Molded Cylinder Lexan®
- Coating: Gold Coated
- UV Protection: 99.9% between 180-380nm
- Thickness: 0.078 inches
- Standard: ANSI Z87.1-2010

### FACE SHIELD - WELDING AV-FS15 WS5

Art No: 3417AV401

- Best suited for welding applications
- Material: Molded Cylinder Polycarbonate (No. 5 Weld Shade)
- UV Protection: 99.9% between 180-380nm
- Dimensions: 8" x 15.5"
- Thickness: 0.078"
- Standard: ANSI Z87.1-2010

EYE AND FACE PROTECTION



**14 cal/cm<sup>2</sup>**  
Arc Rating



**12 cal/cm<sup>2</sup>**  
Arc Rating



**12 cal/cm<sup>2</sup>**  
Arc Rating

### ARC PROTECTION AV-FS20CP ARC 10

Art No: 3417AV498

- Molded Cylinder Polycarbonate
- Coating: Dual Sided Anti-Fog and Anti-Scratch
- Dimensions: 10" x 18.5"
- Thickness: 0.078 inches
- Standard: ANSI Z87.1-2010 (+), EN 166, EN 170, CE 89/686/EEC PPE Directive



### ARC PROTECTION AV-FS18 ARC10

Art No: 3417AV381

- Molded Cylinder Lexan®
- Coating: Dual Sided Anti-Fog and Anti-Scratch
- UV Protection: 99.9% between 80-380nm
- Dimensions: 10" x 18.5"
- Thickness: 0.078 inches
- Standard: ANSI Z87.1-2010



### ARC PROTECTION AV-FS20 ARC10

Art No.: 3417AV400

- Molded Cylinder Lexan®
- Coating: Dual Sided Anti-Fog and Anti-Scratch
- UV Protection: 99.9% between 180-380nm
- Dimensions: 10" x 18.5"
- Thickness: 0.078 inches
- Standard: ANSI Z87.1-2010





# FACE SHIELD



**265°F**  
Heat Tolerance

## FLAT FACE SHIELD AV-FS15P

**Art No: 3417AV397**

- Most economical flat option face shield, can be used with broad spectrum headgear
- Material: Flat Polycarbonate
- UV Protection: 99.9% between 180-380nm
- Dimensions: 10" x 18.5"
- Thickness: 0.04"
- Standard: ANSI Z87.1-2010



**265°F**  
Heat Tolerance

## CYLINDER FACE SHIELD AV-FS18L

**Art No: 3417AV401**

- Highly impact resistant and heat tolerant with limited scratch resistance
- Material: Molded Cylinder Lexan®
- UV Protection: 99.9%
- Dimensions: 10" x 18.5"
- Thickness: 0.078"
- Standard: ANSI Z87.1-2010



**265°F**  
Heat Tolerance

## FACE SHIELD - PLAIN AV-FS12L

**Art No: 3417AV380**

- Lexan® faceshield with Aspherical design allows optimal freedom of movement
- Gives wraparound, splash & impact protection
- Material: Molded Aspherical Lexan®
- UV Protection: 99.9% between 180-380nm
- Dimensions: 8" x 12"
- Thickness: 0.078"
- Standard: ANSI Z87.1-2010



**CE EN 166  
ANSI Z87+**  
Standards

## FACE SHIELD - CLEAR

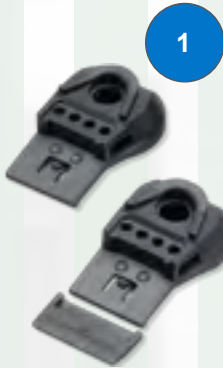
**Art No.: 3417FT01**

- Provides protection against foreign particles, chemical splash, dust, heat and impact resistance
- Headgear with ABS browguard eliminates forehead injury & aluminum bound PC clear visor
- Dimension: 8" x 15-1/2"
- Thickness: 0.039"
- Standard: CE EN 166 and ANSI Z87+



## FACE SHIELD COMPONENTS

EYE AND FACE PROTECTION



### SLOT ADAPTERS

- 1. AV-SA29 | Art No: 34182AV394
- 2. AV-SA93 | Art No: 34182AV402



### VISOR BRACKETS

- 1. AV-VB10 | Art No: 34181AV392
- 2. AV-SA20 | Art No: 34181AV403
- 3. AV-VB30 | Art No: 34181AV404
- 4. AV-VB50 | Art No: 34181AV395



- Slot Adapters are used when you want to mount face shields to a safety helmet without the use of ear muffs.
- Visor Bracket is designed to permit mounting of the full face shield program to most safety caps, and allows simultaneous use of cap mount ear muffs.
- Aluminum Visor Bracket has Spring Suspension used for High Temperature Applications (Not for use with cap muffs.)



**WELDING PROTECTION**



**WELDING HELMET**

**Art No: 1847FT54**

- Light and durable welding helmet with flip-up face shield and separate flip-up eye shield
- Fully adjustable for best possible fit, essential for all types of welding
- Helmet material: Polypropylene Shell
- Standard: CE EN 175, EN 166 and ANSI Z87.1



**WELDING GOGGLES**

**Art No: 2112FT48**

Welding goggles are intended to protect the eyes from the heat, optical radiation, intense ultraviolet light from electrical arc, sparks and debris

- Lens material : Polycarbonate Lens green shade no. 5
- Standard: CE EN 175, EN 166 and ANSI Z87.1



**WELDING GOGGLES**

**Art No: 2112FT49**

Offers high degree of eye protection for welding and cutting, electrical arc, sparks and debris

- Lens material : Polycarbonate Lens green shade no. 5
- Standards: CE EN 175, EN 166 and ANSI Z87.1



EYE AND FACE PROTECTION



## ARC SHIELD AND KIT

### WHAT IS AN ARC FLASH HAZARD?

Arc flash hazard is a dangerous condition associated with the release of energy caused by an electric arc. This explosive condition includes a broad spectrum of electromagnetic energy, plasma, fragments and a spray of molten materials. Temperatures can reach 35,000° F making exposure to this extreme thermal energy hazardous. AVES® offers range of specialty face shields for ARC Flash Hazards in extreme thermal energy conditions.



### AV-ARC 1 KIT

Art No: 3417AV406



#### ARC-1 KIT INCLUDES:

- Arc Shield - AV-FS18 ARC10 (ATPV - 12 cal/cm<sup>2</sup>)
- Safety Glass (AV-SG14 C)
- Visor Bracket/Slot Adaptor (AV-VB30/AV-SA29)
- Safety Helmet (SC-50-6R)
- Balaclava (HD-ARC-FR3)
- Hearing Protection (AV-411)

### AV-ARC 2 KIT

Art No: 3417AV407



#### ARC 2 KIT INCLUDES:

- Arc Shield - AV-FS18 ARC10 (ATPV - 12 cal/cm<sup>2</sup>)
- Safety Glass (AV-SG14 C)
- Visor Bracket/Slot Adaptor (AV-VB30/AV-SA29)
- Safety Helmet (SC-50-6R)
- Balaclava (HD-ARC-FR3)
- Hearing Protection (AV-HM20-NRR 25)

EYE AND FACE PROTECTION



**ARC SHIELD AND KIT**

**ALL ARC SHIELD HAVE THE FOLLOWING FEATURES:**

- Proprietary molded polycarbonate design with special spectral absorbers
- Industry-leading 0.078" thickness for optimal thermal and impact protection
- Arc shields are ANSI Z87.1 Compliant
- Anti-Fog coating for long term anti-fog performance
- Light green shield tint provides excellent visible light transmission (VLT)
- All components tested and certified at Kinectrics High Current Laboratory

**AV-ARC-3 KIT**

Art No: 3417AV408



**ARC-3 KIT INCLUDES:**

- AV-FS20 ARC10 with chin protector (ATPV - 12 cal/cm<sup>2</sup>)
- Safety Glass (AV-SG14 C)
- Visor Bracket/Slot Adaptor (AV-VB30/AV-SA29)
- Safety Helmet (SC-50-6R)
- Balaclava (HD-ARC-FR3)
- Hearing Protection (AV-411)

**AV-ARC 4 KIT**

Art No: 3417AV409



**ARC 4 KIT INCLUDES:**

- AV-FS20 ARC10 with chin protector (ATPV - 12 cal/cm<sup>2</sup>)
- Safety Glass (AV-SG14 C)
- Visor Bracket/Slot Adaptor (AV-VB30/AV-SA29)
- Safety Helmet (SC-50-6R)
- Balaclava (HD-ARC-FR3)
- Hearing Protection (AV-HM20-NRR 25)

EYE AND FACE PROTECTION

# AVES®

# ELVEX®



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