



## Table of Contents

Technical Specifications & Requirements.....	2
Recommendations .....	2
ASTM F2178 Test Report Summary.....	3
Care, Use and Maintenance .....	3
How to Wear (Don/Doff).....	4
Pre-Use Inspection & Checks .....	4
ArcShield Replacement Parts Diagram .....	4

Oberon Company  
(800) 322-3348  
[service@oberoncompany.com](mailto:service@oberoncompany.com)

## Technical Specifications & Requirements

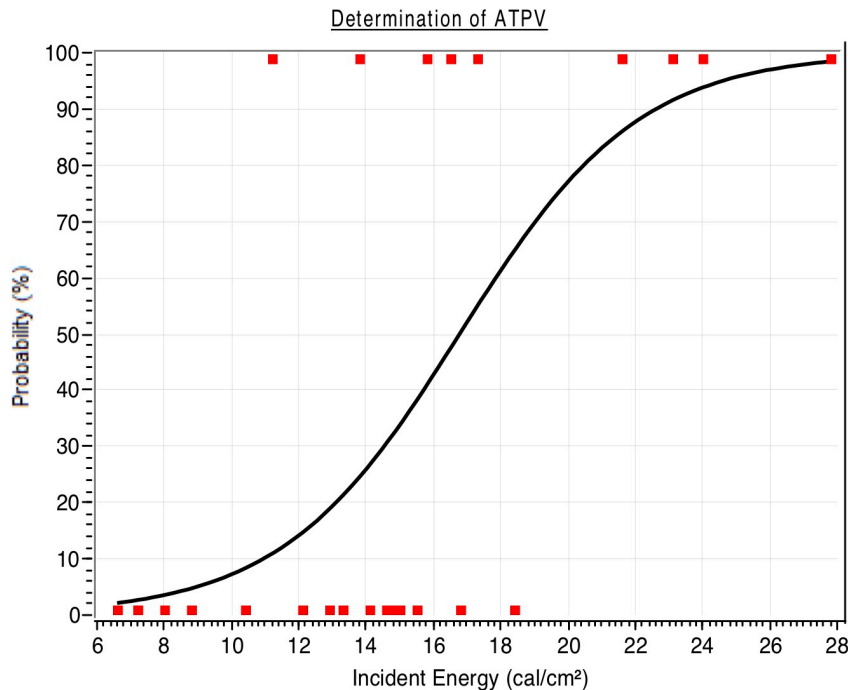
- All arc-rated face shields shall only be used with an arc rating that is suitable for the arc flash exposure.
- Oberon arc ratings are located on a sticker on inside of the lower crown protector. Using any Oberon Arc Shield without the lower crown is strictly prohibited.
- Compliant with the current editions of ASTM F2178 and ANSI Z87.1. Arc Flash test reports are summarized within the table below. ANSI Z87.1 is superior to CSA Z94.3.
- CSA Z462-2018 and NFPA 70E-2018 Conformant. No formal certification to “best practice” Standards currently exist.
- “True Colour” Grey Infrared (IR) face shields compared to Green IR alternatives allow full light spectrum visibility (all colours). As a medium density filter a grey lens provides perfect colour acuity so all wire colours are visible to the worker.
- Lens constructed with Polycarbonate material providing 99.9% UV protection.
- Deluxe model sold with “Scratch-Resistant” and permanent “Anti-Fog” coatings for optimal performance.
- Wrap-around guarding to protect the face, chin, forehead, ears, and front neck area.
- High impact rated per ANSI Z87.1+ (plus symbol indicates high impact models) for maximum protection from shrapnel, projectiles and flying debris.
- Use only approved hard hats for mounting face shield. Select hard hats that include ratchet style suspensions to support the weight of the face shield when in use (engaged position).
- Includes Oberon #SF-5000 Adapters (also referred to as A5 adapters).
- Includes Oberon CSA Z94.1 Type 1 Class E hard hat designed for protection from high temperatures created by an arc flash.
- Adapters are designed for specific hard hat models and shall not be used on non-approved hard hats. Contact Jim Pollard for a cross over list of adapter types.
- No metal or conductive parts.

## Recommendations

- Use nylon or canvas storage bag w/ drawstring closure for arc-rated face shield with hard hat attached.
- Recommend dedicating hard hat to arc-rated face shield to avoid constant need to install before each use.
- Arc-rated face shields or arc flash suit hoods require approved safety glasses to be worn under the face shield or arc flash suit hood for primary eye protection.
- Select shields with the highest amount of visual light transmission. Obtain the ANSI Z87.1 manufacture spectral scan when comparing different models.
- CSA Z462-2018 Standard does not allow for the use of arc-rated goggles. Full-face protection is required. Oberon’s arc-rated face shields comply with the full intention of every applicable Standard.

**ASTM F2178 Test Report Summary**

Oberon Arc Shield Model	Arc Rating (ATPV)
21AGR12AF-CC+500 TCG Face shield hard hat	17 cal/cm <sup>2</sup>


**ATPV = 17 cal/cm<sup>2</sup>**

Probability	E <sub>i</sub>
5%	9.0
10%	10.9
20%	13.1
30%	14.5
40%	15.7
50%	16.8
60%	17.9
70%	19.0
80%	20.5
90%	22.6

(Note: ATPV is reported to nearest integer for ratings above 10 cal/cm<sup>2</sup>)

**Total points analyzed = 24**  
**Points above Stoll = 9**  
**Points above mix zone = 4**  
**Points below mix zone = 5**  
**# Pts within 20% = 11**  
**# Pts in mix zone = 15**

## Care, Use and Maintenance

- Always hold face shield using the lower crown (chin guard), never hold or operate the shield by using the side shield extenders.
- Always activate anti-fog coatings before use by holding the inside of the face shield close to your mouth and exhaling on the entire surface.
- Clean using mild soap and warm water.
- Fingerprints can be removed using a soft cloth from sunglasses or touch screens.
- Cleaning wipes used for respiratory equipment and anti-bacterial disinfectant spray can be used on the inside of the hard hat and suspension components..
- Solvents shall not be used.
- For drying use a clean, soft (microfiber) lint-free cloth is the best choice.
- To avoid scratches, never use a paper towel or untreated paper.
- Never use Windex®, anti-fog solutions or wipes on inside surface of the face shield.
- Store using an Oberon nylon or canvas storage bag.

## How to Wear (Don/DoFF)

How to Don (reverse order for doffing instructions)

1. Remove the Arc Shield & Hard hat from the storage bag.
2. Perform pre-use inspection & checks.
3. Open ratchet suspension (turn counter clockwise).
4. Position the hard hat with Arc Shield on top of your head.
5. Reach around your head using your hand and tighten the ratchet (turn clockwise).
6. Operate the Arc Shield by holding the hard hat with one hand, and lifting or lowering the Arc Shield with the other hand.

*TIP: Always hold face shield using the lower crown (chin guard), never hold or operate the shield by using the side shield extenders.*

## Pre-Use Inspection & Checks

- Check the face shield visibility, inspect for excessive scratching. If visibility is impaired or the shield is cracked or damaged remove from use (replace with appropriate lens).
- Manually adjust the shield mounting mechanism (adapters) to ensure wing nuts are firmly in place, do not over tighten or the shield won't be able to operate correctly.
- Inspect adapters for cracks or damage, ensure fingers are locked into hard hat slots
- Check hard hat slots and inspect for cracks that could allow the adapter to slip out
- Ensure the nuts and bolts fastening a lower chin guard (double crown) are tight before use.

## Arc Shield Replacement Parts Diagram

