SECTION 1 – SAFETY PRECAUTIONS – READ BEFORE USING

Protect yourself and others from injury—read, follow, and save these important safety precautions and operating instructions.

1-1. Symbol Usage

DANGER! – Indicates a hazardous situation which, if not avoided, will result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

Indicates a hazardous situation which, if not avoided, could result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

NOTICE – Indicates statements not related to personal injury.

Indicates special instructions.

1-2. Hazards

The symbols shown below are used throughout this manual to call attention to and identify possible hazards. When you see the symbol, watch out, and follow the related instructions to avoid the hazard. The safety information given below is only a summary of the more complete safety information found in the Principal Safety Standards. Read and follow all Safety Standards.

Only qualified persons should install, operate, maintain, and repair this equipment. A qualified person is defined as one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter, the work, or the project and has received safety training to recognize and avoid the hazards involved.

During operation, keep everybody, especially children, away.

NOISE can damage hearing.

Noise from some processes or equipment can damage hearing.

Wear approved ear protection if noise level is high.

READ INSTRUCTIONS.

Read and follow all labels and the Owner’s Manual carefully before installing, operating, or servicing unit. Read the safety information at the beginning of the manual and in each section.

Use only genuine replacement parts from the manufacturer.

Perform installation, maintenance, and service according to the Owner’s Manuals, industry standards, and national, state, and local codes.

FACE SHIELDS do not provide unlimited eye, ear, and face protection.

Use face shield only for protection from specific welding/cutting hazards listed in Section 1-4, and for protection from low impact hazards associated with chipping, grinding, wire-brushing, and similar activities.

This face shield meets the requirements of ANSI Z87.1+ and CSA Z94.3. The polycarbonate lenses are not unbreakable and do not provide unlimited protection.

Use the correct lens for the application.

Use impact resistant safety spectacles or goggles and ear protection at all times when using this face shield.

FLYING METAL OR DIRT can injure eyes.

Welding, chipping, wire brushing, and grinding cause sparks and flying metal. As welds cool, they can throw off slag.

Wear approved safety glasses with side shields even under your face shield.
1-3. California Proposition 65 Warnings

WARNING – Cancer and Reproductive Harm — www.P65Warnings.ca.gov.

1-4. Lens Shade Selection Table

<table>
<thead>
<tr>
<th>Process</th>
<th>Plate Thickness in.</th>
<th>Plate Thickness mm</th>
<th>Arc Current Amperes</th>
<th>Minimum Protective Shade No.</th>
<th>Suggested Shade No. Comfort</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plasma Arc Cutting (PAC)</td>
<td></td>
<td></td>
<td>Less than 20</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Oxyfuel Gas Welding (OFW)</td>
<td>Light</td>
<td>Under 1/8</td>
<td>Under 3</td>
<td></td>
<td>4 or 5</td>
</tr>
<tr>
<td>Oxygen Cutting (OC)</td>
<td>Light</td>
<td>Under 1</td>
<td>Under 25</td>
<td>3 or 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Medium</td>
<td>1 to 6</td>
<td>25 to 150</td>
<td>4 or 5</td>
<td></td>
</tr>
<tr>
<td>Torch Brazing (TB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Torch Soldering (TS)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Reference: ANSI Z49.1:2021

1-5. Principal Safety Standards


Face 2022–01