

Welding Lens Shades

The following is a guide for the selection of the proper shade numbers. These recommendations may be varied to suit the individual's needs.

Welding operation	Shade No.
Shielded metal-arc welding – 1/16, 3/32, 1/8, 5/32-inch electrodes (1.6, 2.4, 3.2, 4-mm electrodes)	10
Gas-shielded arc welding (nonferrous) – 1/16, 3/32, 1/8, 5/32-inch electrodes (1.6, 2.4, 3.2, 4-mm electrodes)	11
Gas-shielded arc welding (ferrous) – 1/16, 3/32, 1/8, 5/32-inch electrodes (1.6, 2.4, 3.2, 4-mm electrodes)	12
Shielded metal-arc welding – 3/16, 7/32, 1/4-inch electrodes (4.8, 5.5, 6.4-mm electrodes)	12
Shielded metal-arc welding – 5/16, 3/8-inch electrodes (8, 9.5-mm electrodes)	14
Atomic hydrogen welding	10-14
Carbon arc welding	14
Soldering	2
Torch brazing	3 or 4
Light cutting, up to 1 inch (2.5 cm)	3 or 4
Medium cutting, 1 inch to 6 inches (2.5 to 15 cm)	4 or 5
Heavy cutting, 6 inches (15 cm) and over	5 or 6
Gas welding (light), up to 1/8-inch (3.2 mm)	4 or 5
Gas welding (medium), 1/8-inch to 1/2-inch (3.2 to 13 mm)	5 or 6
Gas welding (heavy), 1/2-inch (13 mm) and over	6 or 8

NOTE: In gas welding or oxygen cutting where the torch produces a high yellow light, it is desirable to use a filter or lens that absorbs the yellow or sodium line in the visible light of the operation.

Source: https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_id=9853&p_table=standards