



Lens Shade Selection Guide

Arc Welding				
Operation	Electrode Size X/32 in. (mm)	Arc Current (AMP)	Minimum Shade #	Suggested Shade # (Comfort)
Shielded metal arc welding	Less than 3 (2.5)	Less than 60	7	—
	3-5 (2.5-4)	60–160	8	10
	5-8 (4-6.4)	160–250	10	12
	More than 8 (6.4)	250–550	11	14
Gas metal arc welding and flux cored arc welding		Less than 60	7	-
		60–160	10	11
		160–250	10	12
		250–500	10	14
Gas tungsten arc welding		Less than 50	8	10
		50–150	8	12
		150–500	10	14
Air carbon arc cutting	(Light)	Less than 500	10	12
	(Heavy)	500–1000	11	14
Plasma arc welding		Less than 20	6	6–8
		20–100	8	10
		100–400	10	12
		400–800	11	14
Plasma arc cutting	(Light)	Less than 300	8	9
	(Medium)	300–400	9	12
	(Heavy)	400-800	10	14
Torch brazing		—	—	3 or 4
Torch soldering		—	—	2
Carbon arc welding		—	—	14

Oxy-Fuel Welding			
Operation	Plate Thickness		Suggested Shade # (Comfort)
Oxy-Fuel Gas Welding			
Light	Under 1/8"	Under 3mm	4 or 5
Medium	1/8" to 1/2"	3mm–13mm	5 or 6
Heavy	Over 1/2"	Over 13mm	6 or 8
Oxygen Cutting			
Light	Over 1"	Under 35 mm	3 or 4
Medium	1" to 6"	25mm–50mm	4 or 5
Heavy	Over 6"	Over 150mm	5 or 6