



REPLACEMENT LENS



Gold Polycarbonate Filter Lens

Gold filter lens allow the welder to see his work in true, more natural colors. Lens are approximately 1/3 the weight of glass lens. The gold coating reflects the same harmful rays but stays cooler than the glass lens. Manufactured to Federal Specification GGG-H-211D and ANSI STD.Z87.1

2 x 4 1/4

Part#	Description	Part#	Description
<input type="checkbox"/> 812408	Gold Lens Filter Shade 8	<input type="checkbox"/> 814508	Gold Lens Filter Shade 8
<input type="checkbox"/> 812409	Gold Lens Filter Shade 9	<input type="checkbox"/> 814509	Gold Lens Filter Shade 9
<input type="checkbox"/> 812410	Gold Lens Filter Shade 10	<input type="checkbox"/> 814510	Gold Lens Filter Shade 10
<input type="checkbox"/> 812411	Gold Lens Filter Shade 11	<input type="checkbox"/> 814511	Gold Lens Filter Shade 11
<input type="checkbox"/> 812412	Gold Lens Filter Shade 12	<input type="checkbox"/> 814512	Gold Lens Filter Shade 12

4 1/2 x 5 1/4

Heat Treated Filter Plate Lens 50MM

Heat treated filter plates are manufactured to Federal Specification GGG-H-211D and ANSI STD. Z87.1

Part#	Description
<input type="checkbox"/> 8050MM05	Lens Filter Shade 5 (Sold in pairs)

Heat Treated Filter Plate Lens

2 x 4 1/4

2" x 4-1/4" Heat treated filter plates are manufactured to Federal Specification GGG-H-211D and ANSI STD. Z87.1

Part#	Description	Part#	Description
<input type="checkbox"/> 802403	Lens Filter Shade 3	<input type="checkbox"/> 802409	Lens Filter Shade 9
<input type="checkbox"/> 802404	Lens Filter Shade 4	<input type="checkbox"/> 802410	Lens Filter Shade 10
<input type="checkbox"/> 802405	Lens Filter Shade 5	<input type="checkbox"/> 802411	Lens Filter Shade 11
<input type="checkbox"/> 802406	Lens Filter Shade 6	<input type="checkbox"/> 802412	Lens Filter Shade 12
<input type="checkbox"/> 802407	Lens Filter Shade 7	<input type="checkbox"/> 802413	Lens Filter Shade 13
<input type="checkbox"/> 802408	Lens Filter Shade 8	<input type="checkbox"/> 802414	Lens Filter Shade 14

Glass Magnifying Lens

Part#	Description
<input type="checkbox"/> 8GM24100	Lens Magnifier Glass, Diopter 1.00
<input type="checkbox"/> 8GM24125	Lens Magnifier Glass, Diopter 1.25
<input type="checkbox"/> 8GM24150	Lens Magnifier Glass, Diopter 1.50
<input type="checkbox"/> 8GM24175	Lens Magnifier Glass, Diopter 1.75
<input type="checkbox"/> 8GM24200	Lens Magnifier Glass, Diopter 2.00
<input type="checkbox"/> 8GM24225	Lens Magnifier Glass, Diopter 2.25
<input type="checkbox"/> 8GM24250	Lens Magnifier Glass, Diopter 2.50
<input type="checkbox"/> 8GM24300	Lens Magnifier Glass, Diopter 3.00

Heat Treated Filter Plate Lens

4 1/2 x 5 1/4

4-1/2" x 5-1/4" Heat treated filter plates are manufactured to Federal Specification GGG-H-211D and ANSI STD. Z87.1

Part#	Description	Part#	Description
<input type="checkbox"/> 804505	Lens Filter Shade 5	<input type="checkbox"/> 804511	Lens Filter Shade 11
<input type="checkbox"/> 804506	Lens Filter Shade 6	<input type="checkbox"/> 804512	Lens Filter Shade 12
<input type="checkbox"/> 804508	Lens Filter Shade 8	<input type="checkbox"/> 804513	Lens Filter Shade 13
<input type="checkbox"/> 804509	Lens Filter Shade 9	<input type="checkbox"/> 804514	Lens Filter Shade 14
<input type="checkbox"/> 804510	Lens Filter Shade 10		

Clear "Safety" Lens

100% polycarbonate. Manufactured to Federal Specification GGG-H-211D and ANSI STD. Z87.1

Part#	Description
<input type="checkbox"/> 8SC24	Clear "Safety", 2 x 4-1/4
<input type="checkbox"/> 8SC45	Clear "Safety", 4-1/2 x 5-1/4

Lens Cover Hornell

Part#	Description
<input type="checkbox"/> 8H-0-9000	Lens outside cover Hornell 9000 (04-0270-00)
<input type="checkbox"/> 8H-I-F/V	Lens inside cover Hornell 9000F/V (04-0290-00)
<input type="checkbox"/> 8H-I-X/XF	Lens inside cover Hornell 9000X/XF (04-0280-00)

Clear "Cover" Lens

100% cast resin. Manufactured to Federal Specification GGG-H-211D and ANSI STD. Z87.1

Part#	Description
<input type="checkbox"/> 8CC24	Clear "Cover", 2 x 4-1/4
<input type="checkbox"/> 8CC45	Clear "Cover", 4-1/2 x 5-1/4



Helmet Filter Plate Selection

Suggested guide for shade numbers

Operation	Electrode Size (in.)	Arc Current (A)	Suggested Shade No.
Shielded metal arc welding	Up to 5/32"		10
	3/16" to 1/4"		10 to 12
	5/16" and up		12 to 14
Gas Metal arc welding and flux cored arc welding		Less than 60	9
		60-160	11
		160-350	12
		250-500	14
Gas tungsten arc welding		Less than 50	10
		50-150	12
Air carbon Arc Cutting	(Light)	150-500	14
	(Heavy)	500-1000	12
Plasma arc welding		Less than 20	6 to 8
		20-100	10
		100-400	12
		400-800	14
Plasma arc cutting	(Light)	Less than 300	9
	(Medium)	300-400	12
	(Heavy)	400-800	14

Magnifier Lens Selector Chart

Specify Diopter Power

Age	Focal No.
Up to 41	.75
41-44	1.00
44-47	1.25
47-50	1.50
50-52	1.75
52-56	2.00
56-60	2.25
60-over	2.50

Operation	Shade Number
Torch Brazing	3 or 4
Oxygen Cutting	
Up to 1 inch	3 or 4
1 to 6 inches	4 or 5
6 inches and up	5 or 6
Gas welding	
Up to 1/8 inch	4 or 5
1/8 to 1/2 inch	5 or 6
1/2 inch and up	6 to 8
Oxyacetylene Flame Spraying	5



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