

青岛诺晶玻璃有限公司
NOVAL GLASS GROUP LTD
Tel: +86-532-82751111
Fax: +86-532-82755222
Email: info@novalglass.com
Add.: NO.33 Shandong Road, Qingdao, China



WELDING GLASS

NOVAL WELDING GLASS

NOVAL INTRODUCTION

Noval Glass is a highly professional welding glass supplier from China, who offers excellent protection, high optical quality, dimensional stability resistance to radiation, and scratch resistance.

Noval has been exporting Welding Glass to all over the world like Europe, American, Latin America, Africa and South Asia. All our customers could get favorable solutions from Noval Glass.

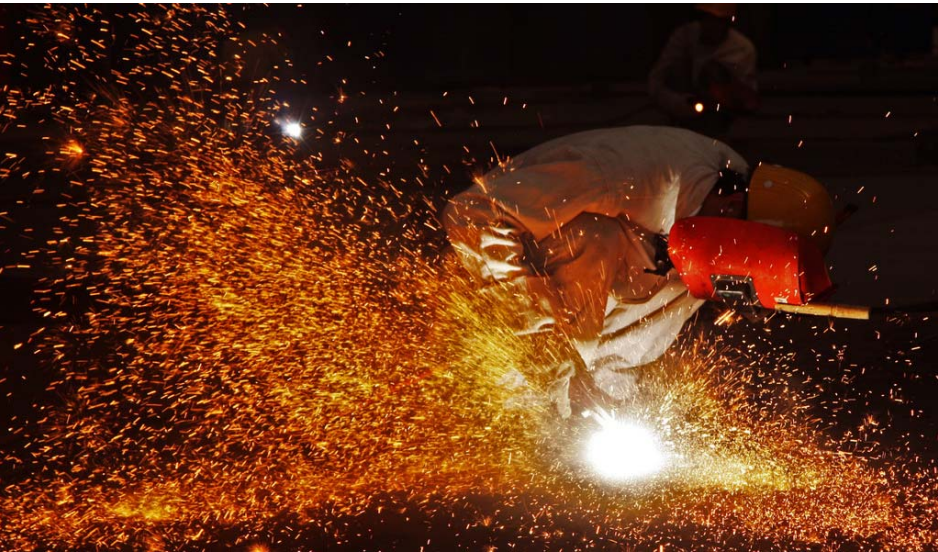
Our main products are tinted glass Welding glass, Clear glass Welding glass. Available Shade No. is from 4 to 16.

WELDING GLASS DESCRIPTION

Welding Glass, also known as welding lens, protective lens, protective welding glass, welding goggle lens, is the main components of welding mask and laser goggle.

Noval welding glass has smooth Appearance and no obvious distortions, color variations, striations, bubbles, stones, inclusions or other defects detrimental to the optical properties. It offers excellent UV and IR protection while reducing eye strain from its lack of distortion.

Welding glass helps to protect welders against the above mentioned situation. Welding glass can prevent infrared and ultraviolet through effectively as well as decrease the incident visible light, thereby protecting the worker's eyes. At the Meanwhile, workers can still observe the working condition clearly.



WELDING GLASS SHADE NO.

SHADE NO.INTRODUCTION

Shade No. describes the light resistance degree

High shade no. welding glass allows low visible light transmittance. This welding glass is usually used for single chip welding mask and goggle.

Low shade no. welding glass allows high visible light transmittance but prevents IR and UV. This welding glass is usually used for multi-chip welding mask and goggle as well as single chip mask under weak visible light condition.



APPLICATION RANGE

Different Shade No. welding glass is fit for different working condition.

Shade No.4 is used for back man like Steel Roller, fireman on blast furnace.

Shade No. 5 to 14 is used for gas and arc welding, brazing, or torch cutting

No.5 to 6 fit for arc welding under 30A

No.7 to 8 fit for arc welding from 30A to 75A

No.9 to 11 fit for arc welding from 75A to 200A

No.12 to 13 fit for arc welding from 200 A to 400A

No.14 to 16 fit for arc welding over 400A

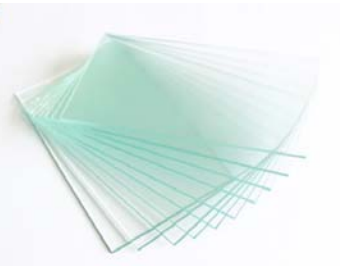
SHADE NO. PARAMETER

SHADE NO.	UV TRANSMITTANCE		VISIBLE LIGHT TRANSMITTANCE		IR TRANSMITTANCE	
	313nm	365nm	MAX	MIN	700~1300μm	1300~2000μm
DIN 4	0.0003	0.95	8.5	3.2	6.4	5.4
DIN 5	0.0003	0.3	3.2	1.2	3.2	3.2
DIN 6	0.0003	0.1	1.2	0.44	1.7	1.9
DIN 7	0.0003	0.037	0.44	0.16	0.81	1.2
DIN 8	0.0003	0.013	0.16	0.061	0.43	0.68
DIN 9	0.0003	0.045	0.061	0.023	0.2	0.39
DIN 10	0.0003	0.0016	0.023	0.0085	0.1	0.25
DIN 11	0.0003	0.0006	0.0085	0.0032	0.05	0.15
DIN 12	0.0002	0.0002	0.0032	0.0012	0.027	0.097
DIN 13	0.000076	0.000076	0.0012	0.00044	0.014	0.06
DIN 14	0.000027	0.000027	0.00044	0.00016	0.007	0.04
DIN 15	0.0000094	0.0000094	0.00016	0.000061	0.003	0.02
DIN 16	0.0000034	0.0000034	0.000061	0.000029	0.003	0.02

CLEAR WELDING GLASS

CLEAR WELDING GLASS DESCRIPTION

Clear welding glass is a protective welding glass, which has high light transmittance and no optical filter or reflector function. It is used as the front cover of welding goggle to protect the inner filter and welding lens against dust, welding slag, molten debris and metal vapor. By covering the clear welding protective glass, it can reduce the replacement frequency of the inner filter and welding lens, which is a quite economic and time-saving choice for welders.



CLEAR WELDING GLASS MATERIAL

Clear Welding Glass is made of clear sheet glass and clear float glass with thickness of 1.8mm, 2mm and 3mm. Comparing to sheet glass, float glass with more even thickness, less striations, bubbles, stones and inclusions. Thus the float glass welding glass shows better formation of image. Sheet glass welding glass shows slight distortions due to the uneven thickness. But sheet glass has better rate than float glass.

CLEAR WELDING GLASS FEATURES

- High light transmittance brings great image formation.
- Protect the welder from dust, slag, molten debris and metal vapor
- Without optical filter function
- Economic choice

CLEAR WELDING GLASS SPECIFICATION

	SHEET GLASS	FLOAT GLASS	
THICKNESS	1.8MM	2mm	3mm
SIZE	51*108MM, 30*110MM, 60*110MM, 85*110MM, 90*110MM, 165*110MM, 136*183MM		51*108MM, 30*110MM, 60*110MM, 85*110MM, 90*110MM, Φ50MM
ADVANTAGE	Better Price	Better formation of image	
COLOR	Transparent Clear		
REMARK	Size can be customized.		



BLACK WELDING GLASS

BLACK WELDING GLASS DESCRIPTION

Black Welding Glass, Golden coated welding glass is the most popular glass welding glass, which can be used both single chip and multi chip. The glass is in flat plates and it's commonly used in welding helmets, masks, or goggles, which greatly reduce the light and heat which the welders' eyes are exposed to. Noval welding glass can help the welder to deal with the flying sparks, bits of molten debris jumping out from the working area as well as the intensely bright visible light and invisible UV and IR. Thus the welders can free their eyes from hurting both slag and harmful radiation.



BLACK WELDING GLASS MATERIAL

Black glass welding glass is made by adding metal elements into the glass, which reduces the visible light transmittance and meanwhile absorbing the UV and IR. Golden welding glass is made by coating a golden layer on the black tinted glass. This colored layer reflects rather than absorbs light. And there will be 0.3-0.5 darker in shade no than pure black glass.

BLACK WELDING GLASS FEATURES

- Double-defeding of absorbing the IR and UV and the related heat
- Effectively reduce intensely visible light and the related heat.
- High optical quality offers high visible condition
- More scratch-resistant
- Various shade No. choice from Din 4-16

BLACK WELDING GLASS SPECIFICATION

THICKNESS		2mm, 3mm
SHADE NO.		DIN 4-16
COLOR		Black, Golden, Silver
MATERIAL		Glass
SIZE	2mm	51*108mm, 30*110mm, 89*109mm, 90*110mm, 180*110mm
	3mm	75*98mm, 50*100mm, 50*105mm, 83*108mm, 50*110mm, 55*110mm, 60*110mm, 80*110mm, 80*110mm ,90*110mm, 110*165mm, Φ50mm.
REMARK		Size can be customized.



WELDING GLASS PRODUCTION

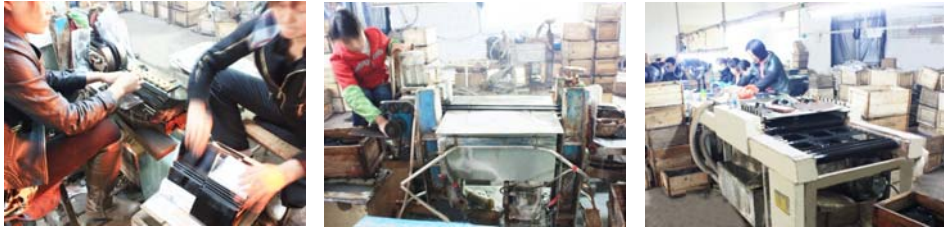
PRODUCTION LINE



CUTTING



EDGEWORKING



INSPECTION AND LOADING



WELDING GLASS PACKING AND LOADING

GLASS INTERLAYER



WITHOUT INTERLAYER

PAPER INTERLAYER

PLASTIC BAG

CARTON BOX



WOODEN CASE



LOADING

