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TECHNICAL DATASHEET

WL530 WELDING HELMET

DESCRIPTION

The UniSafe WL530 welding helmet is an Australian made, lightweight injection moulded welding helmet, with ratchet adjustable headgear, lift up lens holder and replaceable terry towel sweatband (TA094).

The unit is supplied with a removable protective shade 10 filter, approved to AS/NZS 1338.1:1992 and a clear cover lens.

The purpose of the clear cover lens is to protect the filter lens against pitting caused by sparks and hot metal spatter. The clear lens must be placed on the outside of the filter lens. The clear lens should be replaced when it impairs vision.

Filter lenses are furnished in a variety of shades (7 to 14), which are designated by number. The lower the number, the lighter the shade; the higher the number, the darker the shade.

APPLICATIONS

Suitable industries include construction, shipbuilding, heavy fabrication and mining.

Applications include gas welding, MIG, TIG and Plasma arc. Please refer to AS/NZS 1338, Part 1 for filter selection.

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TECHNICAL SPECIFICATIONS

WL530	
	
Shell Material	Thermoplastic
Head Harness Material	High Density Polyethylene
Cover Lens Material	Polycarbonate
Cover Lens Dimensions	108 x 50mm
Chipping Lens Material	Polycarbonate - medium impact (I)
Chipping Lens Dimensions	108 x 50mm
Filter Lens Material	Glass
Filter Lens Dimensions	108 x 50mm
Filter Lens Shades available	Shade 7, 8, 9, 10, 11, 12, 13, 14

APPROVAL INFORMATION

The UniSafe WL530 helmets have been tested and certified to AS/NZS 1337:1992 with a medium impact (I) rating.

The UnISafe WL530 Filter Lens have been tested and certified to AS/NZS 1338.1:1992.

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MARKINGS ON FACESHIELDS

Markings on eye/face protectors are a requirement for certification. It assists users in identifying their intended use. They are identified by the following:

STANDARD	SYMBOL	EXPLANATIONS
AS/NZS 1337.1:2010	I or F	For **medium impact** protection
AS/NZS 1337.1:2010	V	For **high impact** protection
AS/NZS 1337.1:2010	M	For **molten metal** resistance
AS/NZS 1337.1:2010	C	For **splash** resistance
AS/NZS 1337.1:2010	O	For **outdoor tinted**

Impact protection is determined by the metres per second in which a projectile travels. A ballistic test rig fires either a 6.00mm or a 6.35 mm projectile ball at speeds from 12m, up to 190m per second dependant on which size projectile is used.

STANDARD	RATING	BALL SPEED		IMPACT PROTECTION SITUATIONS	TYPE OF PROTECTOR
		6.00mm	6.35mm		
AS/NZS 1337.1:2010	Low Impact	12m/sec	12m/sec	Hammering, handling wire, brick chipping by hand	Spectacles
AS/NZS 1337.1:2010	Medium Impact	40m/sec	40m/sec	Grinding, machining metals, woodworking	Spectacles, Eyeshields or lightweight visor systems
AS/NZS 1337.1:2010	High Impact	120m/sec	110m/sec	Concrete cutting, high speed disc grinding, metal cutting	Visor systems only
AS/NZS 1337.1:2010	Extra High Impact	190m/sec	175m/sec	Abrasive shot blasting, ballistic, military, electrical maintenance	Visor systems only

Selecting eye protection is very much about identifying the hazards and assessing the risks. Selecting the wrong type of PPE can have serious consequences. It is important to consider the velocity, size and the nature of the hazard when evaluating eye/face protection.

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APPROVAL INFORMATION

Certified table below gives an indication of recommended filter lens shades for various welding operations. The filter lens shade number selected depends on the type of work and somewhat on the preference of the user.

RECOMMENDED PROTECTIVE FILTERS FOR ELECTRIC ARC WELDING

DESCRIPTION OF PROCESS	APPROX. RANGE OF WELDING CURRENT	MINIMUM SHADE NO.
Air-arc gauging	≤ 400	12
Fluxcored arc welding (FCAW) - with or without shielding gas	≤ 300 300 to 400 400 to 500 ≥ 500	11 12 13 14
Gasmetal arc welding (GMAW) (MG) - aluminium and stainless steel - other than aluminium and stainless steel	≤ 250 250 to 350 ≤ 150 150 to 250 250 to 300 300 to 400 ≥ 400	12 13 10 11 12 13 14
Gas tungsten arc welding (GTAW) (TIG)	≤ 100 100 to 200 200 to 250 250 to 350 ≥ 320	10 11 12 13 14
Manual metal arch welding - covered electrodes (MMAW)	≤ 100 100 to 200 200 to 300 300 to 400 ≥ 400	8 10 11 12 13
Plasma-arc cutting	50 to 100 100 to 400 400 to 800	10 12 14
Plasma-arc spraying Plasma-arc welding	- ≤ 20 20 to 100 100 to 400 400 to 800	15 8 10 12 14

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RECOMMENDED PROTECTIVE FILTERS FOR GAS WELDING

DESCRIPTION OF PROCESS	RECOMMENDED SHADE NO.
Lead Welding	3
Light oxygen cutting	4
Flame decaling	4
Silver brazing	4
Braze welding light gauge copper and steel	4
Welding die cast	4
Oxygen cutting, medium thickness	5
Oxygen lancing	5
Oxygen deseaming	5
Flame gauging	5
General welding	5
Braze welding cast iron	5
Hardfacing	5
Heavy cutting over 300mm	6
Fusing welding preheated cast iron	6
Fusion welding heavy thickness	6
Thermit welding	6

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ORDERING INFORMATION

PART NUMBER	DESCRIPTION
WL530	Welding Helmet (Fitted with Shade 10 lens)
REPLACEMENT PARTS	
WW257	Shade 7 Replacement Glass Lens
WW258	Shade 8 Replacement Glass Lens
WW259	Shade 9 Replacement Glass Lens
WW250	Shade 10 Replacement Glass Lens
WW251	Shade 11 Replacement Glass Lens
WW252	Shade 12 Replacement Glass Lens
WW253	Shade 13 Replacement Glass Lens
WW254	Shade 14 Replacement Glass Lens
WW311	Polycarbonate Clear Chipping Lens Replacement - High Impact (V)
TA094	Replacement Terry Towelling Sweatband
WA184	Replacement Welding Helmet Ratchet Harness

MAINTENANCE/CLEANING

Welding Helmets should be inspected for deterioration or damage before each use.

Chipping lens, cover lens and filter lens should be checked prior to use for cracks, distortion or sever scratching and should be replaced if damaged.

Helmets with cracks, dents or excessive scratching should be discarded immediately. For best cleaning results, use soap and warm water and wipe/pat dry.

The use of solvents, harsh detergents or abrasives is not recommented. Avoid exposure to Solvents, Sulphuric Acid, Methylene Chloride, Toluene, Paint Thinner and Acetone.

DISPOSAL

As the helmet and its components are subject to dirt, dusts and liquids, etc, they cannot be recycled. If the product is to be disposed of, it should be disassembled and disposed of as solid waste. Please see local authority regulations for disposal advice and locations.