

# 3M™ HH44 Tuffmaster 1 Wide Brim Safety Helmet

## Technical Data Sheet

### Description

The Australian made 3M™ HH44 wide brim safety helmet Polycarbonate (Type 2) with comfortable 6 point terylene head harness.

The 50mm wide brim reduces exposure to sun, assists in deflection of falling objects and prevents liquids making contact with exposed neck areas.

The helmet consists of a shell and a suspension system called a harness. The shell provides the impact protection by deflecting, whilst the harness absorbs the shock and load. The transmission of force is dissipated through the shell, harness by stretching and directing it down through the body to the ground. The six point harness provides the cushioning by stretching and spreading the load evenly over the protected area.

The 25mm wide webbing maximises the surface area contact with the wearer's head and enhances stability/security of the helmet.

The area between the shell and harness is the shock absorption zone and should not be treated as a storage location when worn.

### Features

- HH44 Non-vented, Type 2 Polycarbonate for high temperature applications
- Full brim for extra sun or splash protection
- Six point 25mm webbing harness with injection moulded adjustable headband
- Customised options available: logos, reflective tape
- Accessories available: sweatband, chinstrap, headgear
- Optional model: helmet with miners lamp brackets (metal or polycarbonate) available on request (minimum order quantities may apply)
- Fluoro yellow and orange colours available on request (minimum order quantities apply)
- Suitable for mining, construction, transport, forestry and heavy engineering industries
- Australian made
- Certified to AS/NZS 1801:1997



### Applications

Suitable for general use in industry for higher heat protection of the upper part of the wearers head.

The HH44 wide brim safety helmet has been designed to meet the requirements of AS/NZS 1801 for shock absorption, resistance to penetration, lateral stiffness, ignition by flame and electrical insulation (electrical hazards up to 650V) when tested in the Hot (50°C), Cold (-5°C) and Wet conditions.

Type 2 Polycarbonate safety helmets are suitable for higher temperature applications such as smelting and molten metal.

### Standards

The 3M™ HH44 is certified to AS/NZS 1801:1997 Type 2 Polycarbonate safety helmets for high temperature workplaces.

Various 3M™ brand PPE combinations are Certified (including manufacturer's certified accessories) to Australian/ New Zealand standards.

### Specifications

3M™ HH44 Safety Helmet	
Shell Material	Injection moulded Polycarbonate
Vented or Unvented	Unvented
Harness Cradle	25mm Nylon webbing 6 point
Weight	362 g (weights differ with colours)
Harness Segments	Injection moulded HDPE (High Density Polyethylene)
Brim Length	50 cm
Adjustment Range	50 - 66 cm
Harness Headband	Injection moulded LDPE (Low Density Polyethylene)
Harness Sweatband	Foam backed Terry Towelling (alternative: Lambswool)
Shell Colours	White, Yellow, Red, Orange, Green and Blue

## Types of Safety Helmets

The scope of AS/NZS 1801:1997 standard specifies requirement for occupational protective helmets to protect wearers heads from falling objects in building and construction, quarrying, shipbuilding, forestry, and other occupations with similar hazards. These requirements include the construction and materials of the helmet shell and head harness, mechanical strength of the shell and finish of the helmet.

In compliance with the standards objectives to specify protective helmets that are worn in a variety of occupations. brand safety helmets are classified into three types:

Type	Safety Helmet
Type 1	General industrial safety helmets
Type 2	Helmets intended for high temperature workplaces
Type 3	Helmets intended for bushfire fighting

## Markings & Working Life of Safety Helmets

All information pertaining to selection, care and use is available in AS/NZS 1800:1998. Based upon industrial field tests Australian and New Zealand standards recommends, in general terms, an industrial safety helmet should be replaced every three years from date of issue, and the harness should be replaced every 2 years. Harsh conditions and/or rough usage dictate that a helmet may be replaced sooner. Markings on safety helmets are a requirement for certification. It assists users in identifying their intended use. The shell is moulded with very important information stamped on the peak and you should familiarise yourself with the significance of this labelling. Australian/New Zealand Standards AS/NZS 1801:1997 is an excellent reference document and provides assistance. Replace your hard hat at regular intervals - hard hats don't last forever, even with proper care, wear and tear is inevitable, as a result AS/NZS 1800:1998 3.4 states that the average service life for a safety helmet is three years from time of issue or earlier if the helmet has changed in colour, exhibits any signs of wear or damage due to impact or deterioration.

If the sticker has not been used or removed, consider replacement of the helmet three years from the manufacture date stamp under the brim or peak of the helmet. In the centre of the stamp is the year with a directional arrow pointing to the month of the year in which the helmet was made.

## Customisation & Integrity

3M's corporate branding and reflective tape options are available across the range of Australian made brand safety helmets to create and maintain company image and visibility on site.

3M's Australian made brand safety helmets are manufactured under an independently audited scheme to ISO9001. The Safety Helmets are licensed and manufactured to AS/NZS 1801:1997. 3M's logo printing and application of reflective tape to brand safety helmets does not affect the integrity of the Safety Helmet.

## Reflective tapes

Improved visibility, 3M™ safety helmets fitted with reflective tape have the advantage of improved visibility, making it easier to see where people are working, particularly in low light areas at night. The tapes used by 3M™ have been extensively tested to ensure that the adhesive is fully

compatible with the ABS and Polycarbonate 3M™ safety helmets. The different shapes and patterns have been designed to fit the helmets and enhance the day time and night time visibility of the user. Most patterns have been designed to also fit around safety helmet accessories such as lamp brackets and company logos. Reflective tapes are certified to AS/NZS 1906.1

### HH44 RT1



### HH44 RT2



### HH44 RT3



### HH44 RT4



### HH44 RT5



### HH44 RT6



## Maintenance/Cleaning

The safety helmet should be kept in good condition and cleaned regularly using warm water and/or a mild detergent only. A brush can be used to remove stubborn marks from the shell. Prior to washing, the harness should be removed from the shell to facilitate cleaning. The use of solvents, very hot water or harsh abrasives is not recommended.

Worn or damaged headgear parts should be replaced immediately and damaged shells (splits, cracks, dents or excessive abrasion, discolouration or weathering of the shell surface) should be discarded.

Accessories must be OEM components and never use a makeshift chinstrap. A chinstrap whilst a simple component is designed to meet specific breaking loads. This is to prevent serious accidents from occurring.

## Storage

Storage is part of ongoing care and maintenance but is so often overlooked. Care should be taken to ensure your safety helmet, when not in use, is stored appropriately and not exposed to possible damage.

Refrain from leaving it sitting near the rear window of a car as it is exposed to intensified heat, sunlight and becomes a flying projectile in the event of a car accident or sudden braking.

## Disposal

Most components of this assemble can be recycled. Recycle symbols are present on both the shell and harness assemblies. If recycling facilities are not available the product should be disposed of as solid waste. 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.

## Ordering Information

3M Code	Model #	Description
AT010703604	HH44:WH	3M™ Polycarbonate 1 (Type 2) - White
AT010687476	HH44:GN	3M™ Polycarbonate 1 (Type 2) – Green
AT010694308	HH44:RD	3M™ Polycarbonate 1 (Type 2) – Red
AT010703596	HH44:OR	3M™ Polycarbonate 1 (Type 2) – Orange
AT019495137	HH44:YE	3M™ Polycarbonate 1 (Type 2) – Yellow
AT019447104	HH44:BL	3M™ Polycarbonate 1 (Type 2) – Blue
AT019446973	HH44L:OR	With Polycarb lamp bracket - Orange
AT010703620	HH44SLV	3M™ Tuffmaster 1 ABS (Type 1) – Silver

### Attachments & Accessories

3M Code	Model #	Description
AT010700691	TA094	Replacement Sweatband Terry Towelling
AT010701343	TA095	Replacement Sweatband Lambswool
AT010659749	VV766	Aluminium Visor Holder for TA400 HH40 Helmets
AT019447807	TA179BK	Balaclava Black for use under 3M Helmet
AT010659418	TA170	Cotton Neck Flap White
AT010703992	TA175	Chinstrap for TA500 & TA400 Series Helmets
AT010704065	TA180	Reflective Tape Kit for Helmets
AT010703687	HXHG40	Headgear Tuffmaster 1
AT010703695	HXHG40RH	Replacement Ratchet Harness HH40, HH44 HF44, HF46

## Important Notice

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