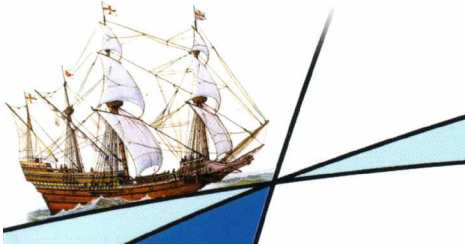


GALJOEN



Product information **CROMWELL FR2**

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SPECIFICATION FOR FIRE FIGHTERS/EMERGENCY SERVICE PROTECTIVE MODULAR HELMET AND FACE SHIELD

1)Introduction

1.1 Scope

The modular helmet, and face shield is intended to provide protection to the head and face from the hazards experienced during normal emergency, fire fighting and rescue duties. It consist of an inner helmet with internal goggle (designated ER 1) which is suitable for non-fire- fighting operations such as road traffic accidents, bush fire, water and height rescue, civil defence and confined space inspections.

The addition of the outer shell with face shield provides full fire fighting protection (this combined dual helmet system is designated Cromwell FR2)

1.2 Related Specifications and Documents

- > EN443: 1997 Fire Fighters Helmets
- > EN166: 2002 Personal Eye Protection Specifications
- > ISO9001:2000 Quality Assurance Scheme
- > Statutory Instrument The Personal Protective Equipment (EC Directive Regulations 1992) and all subsequent extract amendments.

2)Performance

2.1 The helmet is approved to European Standard EN443: 1997 but with EN397 lateral rigidity, and including the following optional requirements.

- a) 14KW/m² radiant heat test
- b) Thermal minus conditioning at – 20C°
- c) Surface electrical insulation test
- d) Wet helmet insulation test

2.2 The helmet is fitted standard with a face shield and goggle to provide protection to the users face. The face shield and goggle are approved to EN 166:2002, all clauses including:

Class 2 Optical with the additional options:

- a) High impact Energy against high speed particles
- b) Protection against Molten Metal and Hot Solids

Material of face shield – 2 mm polycarbonate with following additional options:

- a) Anti-mist and anti-scratch coating
- b) amber tint.

2.3 The helmet meets the requirements of the PPE Regulations.

2.4 The helmet is a full fitting design including extended rear protection, and is shaped to allow for external audibility.

2.5 The helmet has provision for the attachment of a torch.

3) Certification

3.1 CE type examination certificates can be provided together with documentary evidence of the testing carried out by an accredited CE Test House.

4) Quality Assurance

4.1 The helmet is manufactured under an approved ISO 9001 scheme and details of the quality plan are available on request.

5) Physical Characteristics

5.1 The helmet is one size and is fitted with a locking ratchet to give an adjustment range for head sizes 52 – 63 cms.

5.2 The helmet is available in a range of colours, and can be supplied with optional rank and operational markings.

5.3 The helmet is of modular dual shell design consisting of:

- a) An inner helmet with integral protective goggle suitable for use in non-structural fire fighting operations
- b) An outer helmet shell with full face shield for use in structural fire fighting and rescue operations.

5.4 There is no requirement for any external device for the fitting together of the helmets shells.

5.5 Both the goggle and face shield are available as easily replaceable spare parts.

5.6 The helmet shells are manufactured from advanced composite materials (FR2) and engineered thermoplastic (ER1).

5.7 Both the goggle and face shield are manufactured from polycarbonate and the face shield is available with an option anti-mist and anti-scratch coating, and optional amber tint.

5.8 The face shield when in position gives maximum facial protection.

5.9 The face shield is easily positioned with a gloved hand and is stored and protected within the helmet shell.

5.10 The headlining and padding assembly provides a comfortable heat barrier to protect the user from external heat.

5.11 The liner assembly consists of an impact/heat retardant moulding designed to absorb impact and deflect heat.

5.12 Height adjustment is provided by a padding system.

5.13 A brow pad is incorporated which can be positioned for compatibility with breathing apparatus facemask and to allow for angle adjustment of the helmet.

5.14 Lateral adjustment is provided within the headband.

5.15 The adjustable chinstrap is manufactured from fire retardant Nomex, is housed within the shell and incorporates a quick release fastening.

5.16 The helmet can be supplied with an optional, detachable flame retardant neck cape.

5.17 The helmet has location points for fitting of a compatible two point fixing breathing apparatus facemask.

5.18 The helmet can be fitted with a headband mounted radio microphone and receiver.

6) Use and maintenance

6.1 Information is provided for supply of spare parts, repairs, user instructions, and after use care and maintenance.

7) Packaging

7.1 The helmets are bagged and then individually boxed.

7.2 An instruction manual is supplied with each helmet.

This is a product information of HELMET INTEGRATED SYSTEMS LTD

For more information take contact with GALJOEN galjoen@quicknet.nl
Dealer of the CROMWELL ER1 and FR2