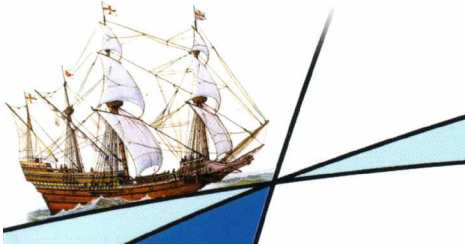


# GALJOEN



Product information **CROMWELL ER1**

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## **SPECIFICATION FOR EMERGENCY SERVICE PROTECTIVE HELMET AND GOGGLE**

### **1)Introduction**

#### 1.1 Scope

The helmet and goggle is intended to provide protection to the head and eyes from the hazards experienced during emergency and rescue duties.

It consist of a close fitting helmet with internal goggle which is suitable for non-structural fire- fighting operations such as road traffic accidents, bush fire, water and height rescue, civil defence and confined space inspections.

The addition of the optional outer shell with full 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) 7KW/m<sup>2</sup> radiant heat test
- b) Thermal minus conditioning at – 20C°
- c) Surface electrical insulation test
- d) Wet helmet insulation test

2.2 The helmet is provided as standard with a goggle to provide to the users face. The goggle is approved to EN 166:2002, all Clauses including:

Class 2 Optical with the additional options:

- a) Medium Impact Energy against high speed particles

Material of goggle – 2 mm polycarbonate

2.3 The helmet meets the requirements of the PPE Regulations.

2.4 The maximum mass of the helmet and goggle does not exceed 800 grams

2.5 The helmet is shaped to allow for external audibility

2.6 The helmet has provision for 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 – 62 cms. A headband mounted radio microphone and receiver can be fitted.

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

5.3 The helmet design enables the fitting of an optional outer helmet shell with face shield, for use in structural fire fighting and rescue operations.

5.4 Both the goggle and chinstrap are available as easily replaceable spare parts.

5.5 The helmet can be fitted with dedicated ear defenders, and if required a removable goggle.

5.6 The helmet shells are manufactured from engineered thermoplastic.

5.7 Both the goggle and face shield (part of the optional outer shell) are manufactured from polycarbonate. The goggle is retractable into the helmet shell.

5.9 The goggle can be easily positioned with a glove hand.

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

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

5.12 Height adjustment is provided by a padding system.

5.13A 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, and incorporates a quick release fastening.

5.16 The helmet is available with an optional, detachable flame retardant neck cape.

## **6) Use and maintenance**

6.1 An instruction manual is provided giving information for spare parts, repairs, user instructions, and after use care and maintenance.

## **7) Packaging**

7.1 The helmets are bagged and then individually boxed.

This is a product information of HELMET INTEGRATED SYSTEMS LTD

For more information take contact with GALJOEN [galjoen@quicknet.nl](mailto:galjoen@quicknet.nl)  
Dealer of the CROMWELL ER1 and FR2