



**Technical Specification for  
CAP, SERVICE  
MINISTRY OF DEFENCE POLICE (MDP)  
AND  
SOVEREIGN BASE AREA (SBA) CYPRUS POLICE**

**Defence Clothing**  
Integrated Project Team

PROPERTY OF :-  
DEFENCE CLOTHING  
INTEGRATED PROJECT TEAM  
DE&S Caversfield  
Skimmingdish Lane  
Bicester  
Oxon  
OX27 8TS



PREFACE

TABLE 1 – PRODUCT LIST

<b>Item Name</b>	<b>CAP, SERVICE MINISTRY OF DEFENCE POLICE (MDP) AND SOVEREIGN BASE AREA (SBA) CYPRUS POLICE.</b>	
<b>Development File No.</b>	D/DCIPT/RDG/NR/047/02	
<b>Nato Stock Numbers</b>	<b>Item Description</b>	<b>Pattern No.</b>
8405-99-957-8377 to 8387 8405-99-232-8798 (special measure)	Cap Service MDP Police Constables & Sergeants	29497
8405-99-957-8388 to 8398 8405-99-232-8799 (special measure)	Cap Service MDP Police Inspectors	29498
8405-99-957-8399 to 8409 8405-99-232-8800 (special measure)	Cap Service MDP Police Superintendents	29499
8405-99-957-8410 to 8420 8405-99-232-8801 (special measure)	Cap Service SBA Cyprus Police Constables & Sergeants	29490
8405-99-957-8421 to 8431 8405-99-232-8802 (special measure)	Cap Service SBA Cyprus Police Inspectors	29495
8405-99-957-8432 to 8442 8405-99-232-8803 (special measure)	Cap Service SBA Cyprus Police Superintendents	29496

Any colour shown in this document is for representation and must not be used for colour matching.

**IPR STATEMENT**

This specification contains information which is proprietary to the Secretary of State for Defence and shall remain the property of the Secretary of State. It is issued in strict confidence and must not be seen by any unauthorised person. The specification is supplied solely for the purpose of Information/Tender/Contract and shall not be copied or reproduced or used for any other purpose whatsoever without the express prior written permission of the Secretary of State as represented by the Intellectual property rights group.

**Technical documents in this specification refer to the edition current at the date of tender or contract unless otherwise stated.**

**CROWN COPYRIGHT RESERVED**

**TABLE 2 – ISSUE RECORD**

<b>Issue No</b>	<b>Comments</b>	<b>Issue Date</b>
07	Reformatted to DE&S template.  Updated related specs & docs.	07 November 2008
06	Addition of Special measure NSN's for all caps	21 February 2007
05	Change of interlining for MDP cap to match Master pattern.	09 June 2005
04	Black plastic buttons to be replaced by metal insignia buttons for both MDP and SBA police caps.	22 November 2004
03	Reviewed Specs and Docs updated	2 September 2003
02	Amended to include eyelets on SBA caps	4 February 2003
01	New issue of specification	09 December 2002

PART 1

1. THE PRODUCT

- a. Use of the Product. A peaked cap for wear by the Ministry of Defence Police made of MVP material and peaked cap for wear by the Sovereign Base Area (SBA) Cyprus Police made from a wool panama.

FIGURE 1 - Cap Service MDP Police Inspectors



FIGURE 2 - Cap Service SBA Cyprus Police Inspectors



TABLE 3 – RELATED SPECIFICATIONS AND DOCUMENTS

<b>Specification/Document</b>	<b>Detail</b>
BS EN ISO 105 Part X12	Textiles. Tests for colour fastness. Colour Fastness to rubbing.
BS EN ISO 139	Textiles. Standard atmospheres for conditioning and testing.
BS EN ISO 845	Cellular plastics and rubbers. Determination of apparent (bulk) density.
BS EN 12590	Textiles. Industrial sewing threads made wholly or partly made from synthetic fibres.
BS 2780	Glossary of leather terms.
BS 3412	General purpose polyethylene materials for moulding and extrusion.
BS 3870 Part 1 & 2	Stitches and seams.
BS 4060	Pressed wool felts
BS 4560	Specification for fabrics for linings in uniform clothing
UK/SC/4687	Embroidered and other distinguishing items and the components used therein.
UK/SC/4776	Cloth, buckram, jute.
UK/SC/5026	Cloth, plain weave, polyester /wool
UK/SC/5126	Badges, Button Pins, Plates & Titles made from GM Brass and Nickel Silver.
UK/SC/5444	Cloth laminated, Waterproof and Moisture Vapour Permeable.
UK/SC/5628	Cloth, velvet, cotton and silk, WR.
UK/SC/5696	Leather, sheep, head leathers.

2. PATTERNS.

a. Master Patterns. The DC IPT at Caversfield holds a Master Pattern for this product. Potential contractors may view the pattern on site by arrangement with the DC IPT Commercial Department.

b. Standard Patterns. A Standard Pattern may be obtained from the DC IPT Technical Information Office and may be used to provide the criteria for all materials, components and manufacturing features not fully defined in this specification.

### 3. PRODUCT DESIGN

- a. Product Description. A peaked cap to the design and description of the relevant Standard Pattern.

TABLE 4 – PRODUCT COMPONENTS

4.1 Crown, bevel, band and piping for MDP caps	<ul style="list-style-type: none"> <li>• Cloth, black, moisture vapour permeable, polyester faced. Pattern No 8732 to UK/SC/5444</li> </ul>
4.2 Crown, bevel band and piping for SBA Cyprus police caps	<ul style="list-style-type: none"> <li>• Cloth, plain weave, polyester/wool, Navy, 55% polyester 45% wool; NSN 8305-99-130-9995 to UK/SC/5026.</li> </ul>
4.3 Crown, bevel and band lining	<ul style="list-style-type: none"> <li>• Cloth, twill viscose, or Plain weave polyester, or Plain weave, viscose, or Rayon, plain weave.</li> <li>• All linings to be grey or black to meet the colour fastness requirements for perspiration Table 4 Ref: 1.4 of BS 4560.</li> </ul>
4.4 Crown disc	<ul style="list-style-type: none"> <li>• Cellulose acetate sheet, colourless.</li> <li>• Or Polyethylene film.</li> <li>• Or PVC sheeting, not less than 0.1mm and not more than 0.13mm.</li> </ul>
4.5 Interlining crown, bevel and piping for MDP caps	<ul style="list-style-type: none"> <li>• Cloth compressed felt, wool, white, natural, unstoved. Pattern No 8056A to BS 4060 NATO Stock No. 8305-99-942-7158</li> <li>• Or an alternative approved by the DC IPT.</li> </ul>
4.6 Interlining crown bevel and piping for SBA police caps.	<ul style="list-style-type: none"> <li>• Flexible polyurethane, having cells of uniform size and conforming to the requirements of Table 9. Not less than 3mm and not more than 5mm.</li> </ul>
4.7 Head leather.	<ul style="list-style-type: none"> <li>• Leather, sheep, for head leathers, basil, natural, at least 1.0mm but not more than 1.3mm thick, to UK/SC/5696.</li> <li>• Or imitation leather approved by the DC IPT.</li> <li>• The term basil is defined in BS 2780.</li> </ul>

TABLE 4 – PRODUCT COMPONENTS Continued

4.8 Band stiffener (Listed in order of preference)	<ul style="list-style-type: none"> <li>• Cloth, buckram, jute, laminated 2 ply, impregnated buckram to comply with the buckling and flexibility tests specified in specification UK/SC/4776.</li> <li>• Or glued hessian plain weave, 1000 g/m<sup>2</sup>.</li> <li>• Or high density polyethylene sheet, 1.0mm thickness <math>\pm</math> 0.10mm, either solid or perforated.</li> <li>• Or air expanded plastic, 1.2mm thickness.</li> <li>• Or high density Polypropylene sheet, 1.0mm thickness <math>\pm</math> 0.10mm, either solid or perforated.</li> </ul>
4.9 Peak	<ul style="list-style-type: none"> <li>• Flexible PVC, black/beige laminate, with black side polished and beige side flock sprayed, approximately 1.0mm thick, laminated to flexible vulcanised fibre or flexible fibreboard.</li> <li>• Or two-part laminate, fabric, impregnated with polyurethane with black patent finish approximately 1.0mm thick, laminate to polypropylene/polyethylene, surface finish leather grain, colour to be black, approximately 1.5mm thick.</li> <li>• Total thickness of peaks to be no less than 2.5mm and no more than 2.8mm, to comply with the requirements of Table 11.</li> </ul>
4.10 Lining for peak (except two part laminate)	<ul style="list-style-type: none"> <li>• Skiver or imitation skiver black or green in colour, embossed cotton backed plastic. The term skiver is defined in BS 2780. The peak lining fabric is to conform to Table 8</li> </ul>
4.11 Peak embellishment	<ul style="list-style-type: none"> <li>• Pattern Nos. 29495 and 29498 matt black braid to match Standard Pattern.</li> <li>• Pattern Nos. 29496 and 29499 silver braid to UK/SC/4687, design to match Standard Pattern.</li> </ul>
4.12 Binding for peak	<ul style="list-style-type: none"> <li>• PVC, black, 0.6mm thick.</li> </ul>
4.13 Band comforter	<ul style="list-style-type: none"> <li>• Cloth, velveteen, black or fawn to comply with the colour fastness requirements for perspiration, Table 2, of UK/SC/5628.</li> </ul>



TABLE 4 – PRODUCT COMPONENTS Continued

4.14 Support for front	<ul style="list-style-type: none"> <li>High density polyethylene conforming to BS 3412 Section 3, Type A, Class Q, 1.0 to 1.3mm thick.</li> </ul>
4.15 Crown Wire	<ul style="list-style-type: none"> <li>Steel, stainless, flat section with connecting tube brass or steel not less than 3mm and not more than 4mm wide, All metals are to be rustproof</li> </ul>
4.16 Additional headband	<ul style="list-style-type: none"> <li>Ribbon black and white diced 39mm wide.</li> </ul>
4.17 Badge holder	<ul style="list-style-type: none"> <li>Brass as on the Standard Pattern.</li> <li>Or an alternative approved by the DC IPT.</li> </ul>
4.18 Buttons	<ul style="list-style-type: none"> <li>Button, Insignia 22L (14mm). NATO Stock Number: 8455-99-973-0374. Pattern Number: 15914 to UK/SC/5126 or split pin version approved by DC IPT.</li> </ul>
4.19 Chinstrap	<ul style="list-style-type: none"> <li>PVC black, 480mm long by 10mm wide, at least 1.0mm, not more than 1.3mm thick with buckles.</li> </ul>
4.20 Eyelets for 29490, 29495 and 29496	<ul style="list-style-type: none"> <li>Black, circular, approximately 5mm internal diameter.</li> </ul>
4.21 Sewing threads	<ul style="list-style-type: none"> <li>Thread, polyester and cotton, continuous filament, polyester core, cotton sheath, to BS EN 12590. <ul style="list-style-type: none"> <li>a. Metric Ticket No. 25(26), Peak to stiffener.</li> <li>b. Metric Ticket No. 36 (35), Bevel, band, sewing in crown, back and front finishing, lining and all hand sewing.</li> <li>c. Metric Ticket No. 75 for all other sewing.</li> </ul> </li> </ul>

TABLE 5 – PRODUCT CONSTRUCTION

5.1 Crown and piping for MDP caps	<ul style="list-style-type: none"> <li>• The crown tip, oval in shape, is to comply with the measurements set out in Table 7. The measurements are to be taken from the crown tip piping seam.</li> <li>• The crown is to be securely combined to the wool felt with a suitable adhesive to form a water barrier and the laminate produced is to comply with the requirements of Table 10. The bond is to be continuous to ensure that the outer material is free from blisters</li> <li>• The perimeter of the crown is to be piped edge joined in line with the back seam of the bevel quarters.</li> </ul>
5.2 Bevel for MDP caps	<ul style="list-style-type: none"> <li>• The bevel, combined to the wool felt as specified in para 5.1, is to be quartered with seams opened and pressed flat.</li> </ul>
5.3 Crown and piping for SBA police caps	<ul style="list-style-type: none"> <li>• The crown tip, oval in shape, is to comply with the measurements set out in Table 7. The measurements are to be taken from the crown tip piping seam.</li> <li>• The perimeter of the crown tip is to have a piped edge formed using seam type 3.01.01 in line with the back seam of the bevel quarters.</li> <li>• The crown and piping are to be combined to flexible polyurethane foam. The foam is to be bonded to the outer material and the laminate produced is to comply with the following requirements.</li> <li>• Flexible polyurethane foam, conforming to Table 9.</li> <li>• The bond is to be continuous to ensure that the outer material is free from blisters and is to comply with the requirements of Table 10.</li> </ul>
5.4 Bevel for SBA police caps	<ul style="list-style-type: none"> <li>• The bevel, combined to flexible polyurethane foam as specified above, is to be quartered with the seams opened and pressed flat.</li> </ul>
5.5 Band	<ul style="list-style-type: none"> <li>• The band is to be joined at the centre back of the cap in line with the bevel seam.</li> <li>• The band is to have a stitched out welt, 0.6cm from the bottom edge, formed using seam type 6.05.01 of BS 3870.</li> </ul>

TABLE 5 – PRODUCT CONSTRUCTION Continued

5.6 Additional headband	<ul style="list-style-type: none"> <li>The additional diced headband is to be fitted with the seam at the centre back. The seam is to be 1cm and pressed open.</li> </ul>
5.7 Band stiffener	<ul style="list-style-type: none"> <li>The stiffener is to be cut sufficiently long to allow a 2cm overlap where it is joined at the back of the cap, the join maybe stapled or sewn.</li> <li>The stiffener is to be stitched through the outer material immediately below the stitched out welt, and basted to the band/bevel seam.</li> </ul>
5.8 Lining	<ul style="list-style-type: none"> <li>The crown lining is to be sewn in with the crown tip piping seam and be securely attached at the bottom edge of the stiffener. The lining may be securely glued with a suitable adhesive, machine or hand-sewn.</li> <li>The lining is to be cut deep enough to allow the side and back bevel to roll without distortion.</li> <li>A detachable transparent disc, sufficient to cover the crown tip, is to be inserted on top of the crown lining.</li> </ul>
5.9 Peak	<ul style="list-style-type: none"> <li>The peak, black side uppermost, chamfer edged on the brow line and lined on the underside, is to be identical in shape to that of the Standard Pattern.</li> <li>The outer edge is to be bound with black PVC, 0.6cm deep when finished.</li> <li>When fitted the peak is to be correctly balanced and central to the front seam of the bevel quarters.</li> <li>The peak may be fitted to the band stiffener by sewing the inner edge of the peak to either the inner or outer edge of the stiffener. The seam allowance from seam to inner peak edge is not to be less than 0.3cm and not more than 0.5cm.</li> <li>When fitting the peak to the outer edge of the stiffener, the bottom edge of the stiffener is to be bound with velveteen.</li> <li>When fitting the peak to the inner edge of the stiffener, a strip of velveteen, depth 2.5cm is to be sewn to the head leather prior to attaching the head leather to the cap, extending for the length of the peak.</li> <li>The peak is to be sewn to the stiffener with approximately four stitches per 2cm.</li> </ul>

TABLE 5 – PRODUCT CONSTRUCTION Continued

5.9 Peak Continued	<ul style="list-style-type: none"> <li>• For Pattern Nos. 29495 and 29498 a black braid is to be sewn to the peak as on the standard pattern.</li> <li>• For Pattern Nos. 29496 and 29499 a silver braid is to be sewn to the peak as on the standard pattern.</li> </ul>
5.10 Head leather	<ul style="list-style-type: none"> <li>• Each cap is to have a brachered head leather, the ends of which are to be overlapped not less than 1cm and not more than 4cm at the centre back of the cap and tacked together at the top and bottom edge.</li> <li>• The taping on the head leather may be sewn to the band by hand or machine, but in neither case is the head leather to show below the bottom edge of the band.</li> </ul>
5.11 Crown Wire	<ul style="list-style-type: none"> <li>• A removable crown wire is to be fitted on the inside of the cap above the piping of the crown.</li> </ul>
5.12 Button position & chinstrap	<ul style="list-style-type: none"> <li>• A button is to be securely fastened on each side of the cap to accommodate the chinstrap, positioned 1cm from the bottom edge of the band and 1.5cm behind the junction of the peak/band point.</li> </ul>
5.13 Front support	<ul style="list-style-type: none"> <li>• The support is to have a curved top edge and be securely attached to the band stiffener, positioned at the centre front and 1.5cm below the top edge as on the Standard Pattern.</li> </ul>
5.14 Badge holder	<ul style="list-style-type: none"> <li>• The badge holder is to be fitted vertically between the band and the stiffener at the centre front of the cap, with the socket next to the band. The projection at the top of the holder protruding on the outside 0.5cm above the band/bevel seam.</li> <li>• The holder is to be securely sewn, through the holes in the sides, to the stiffener. The opening, made in the band/bevel seam to accommodate the shank of the badge, is to be securely tacked at each side of the badge holder.</li> </ul>
5.15 Eyelets for 29490, 29495 and 29496	<ul style="list-style-type: none"> <li>• 4 eyelets are to be clamped securely through the main material (2 either side of the cap).</li> <li>• Positioned 1.5cms either side of the side bevel seam and 2.3cms above the band/bevel seam (measured from the centre of eyelet)</li> </ul>

TABLE 5 – PRODUCT CONSTRUCTION Continued

<p>5.16 Seams and stitching to BS 3870</p>	<ul style="list-style-type: none"><li>• Machine stitching is to be stitch type 301, with at least eight but not more than ten stitches per 2cm.</li><li>• The binding on the peak is to be formed using seam type 3.01.01.</li><li>• The brachering on the head leather is to be stitch type 304 with at least six stitches per 2cm.</li><li>• The felling on the head leather is to have at least six stitches per 2cm.</li><li>• Sewing threads may be treated with a stain free lubricant.</li><li>• All seams are to be free from pucker.</li><li>• Caps are to be free from all ends of sewing thread and be blocked, steamed and shaped to retain appearance and be delivered in a clean condition.</li><li>• The surface of the peak is to be free from cracking and other defects.</li></ul>
--	--

TABLE 6 – SCHEDULE OF NATO STOCK NUMBERS AND ACTUAL CAP SIZE

<b>Size and internal circumference</b>	<b>53</b>	<b>54</b>	<b>55</b>	<b>56</b>	<b>57</b>	<b>58</b>	<b>59</b>	<b>60</b>	<b>61</b>	<b>62</b>	<b>63</b>	<b>Special Measure</b>
<b>Cap Service</b>	NSN 8405-99-957-											8405-99-232-
MDP Constables & Sergeants	8377	8378	8379	8380	8381	8382	8383	8384	8385	8386	8387	8798
MDP Inspector	8388	8389	8390	8391	8392	8393	8394	8395	8396	8397	8398	8799
MDP Superintendent	8399	8400	8401	8402	8403	8404	8405	8406	8407	8408	8409	8800
SBA Constables & Sergeants	8410	8411	8412	8413	8414	8415	8416	8417	8418	8419	8420	8801
SBA Inspector	8421	8422	8423	8424	8425	8426	8427	8428	8429	8430	8431	8802
SBA Superintendent	8432	8433	8434	8435	8436	8437	8438	8439	8440	8441	8442	8803

TABLE 7 – MEASUREMENTS AND TOLERANCES

Size and internal circumference		53	54	55	56	57	58	59	60	61	62	63	Tols (mm)	
Crown Length		26.2	26.5	26.5	27.1	27.4	27.7	28.0	28.3	28.6	28.9	29.2	2	2
Width		24.2	24.5	24.8	25.1	25.4	25.7	26.0	26.3	26.6	26.9	27.2	2	2
Oval		2.0 oval												
Bevel		5.0 deep											2	2
Band		5.0 wide											2	2
Head Leather		4.0 deep											2	2
Stiffener		5.5 deep											2	2
Front Support		6.5 long											2	2
Peaks	MDP	Depth	5.5 deep										1	1
		Length	28.0 from point to point										5	5
	SBA	Depth	5.0 deep										1	1
		Length	25.5 from point to point										5	5

- All measurements are in centimetres except where otherwise stated.

**TABLE 8 – TEST REQUIREMENTS**

The peak lining is to conform to the requirements of the following Table:

Agency	Rating for colour change	Method of Test
Rubbing wet	4	BS EN ISO 105 (X12)

**TABLE 9 – METHOD OF TEST** Flexible polyurethane foam

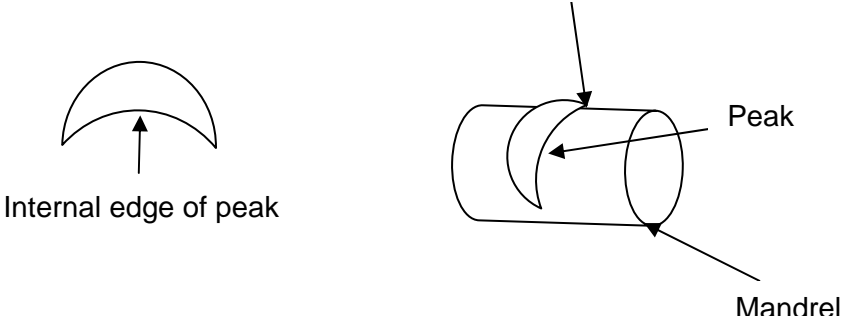
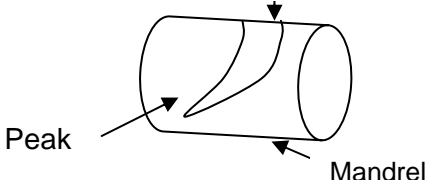
PROPERTY	REQUIREMENT	METHOD OF TEST
Apparent density kg/m <sup>3</sup>	25 - 30	BS EN ISO 845

**TABLE 10 – DETERMINATION OF FABRIC / FOAM LAMINATE BOND STRENGTH**

10.1 Bond strength	<ul style="list-style-type: none"> <li>The minimum bond strength of the laminated fabric is to be 1.25N/25mm when determined by the following method.</li> </ul>
10.2 Sample preparation	<ul style="list-style-type: none"> <li>Specimens which have been conditioned for 24 hours in the standard testing atmosphere defined in BS EN ISO 139 are to be cut 200mm x 25mm with at least two samples being cut with the 200mm dimension in the warp and direction respectively.</li> </ul>
10.3 Procedure	<ul style="list-style-type: none"> <li>The conditioned samples are to be delaminated by hand for 100mm. The tails are to be clamped in the jaws of a CRE tensile testing machine. The sample is then to be peeled apart with a jaw separation of 100mm/min for a 50mm length of the sample.</li> </ul>
10.4 Calculation and expression of results	<ul style="list-style-type: none"> <li>The maximum value of peel bond strength is to be recorded for each sample that peels for 50mm without the foam breaking. If the foam does break during delamination this fact is to be noted and the value at break recorded.</li> <li>The mean value of two results for samples that delaminate for 50mm without the foam breaking is to be calculated in the warp and weft direction respectively.</li> </ul>



TABLE 11 – TEST FOR THE DELAMINATION OF PEAKS

<p>11.1 Test procedure</p>	<ul style="list-style-type: none"> <li>• Four cap peaks (detached from caps) are to be taken from batches of up to 500 and conditioned for 24 hours in the standard atmosphere defined in BS EN ISO 139.</li> <li>• Two peaks are to be placed in an environmental chamber at <math>70 \pm 2^\circ\text{C}</math> and 95 - 100% relative humidity for 6 hours <math>\pm</math> 15 minutes. After removal, the peaks are to be examined for delamination of the black PVC and the (green) skiver, delamination of either peak is to render the batch rejected. Any degree of distortion is to be such that it will not affect the subsequent fitting of the peak to a cap; severe distortion of either peak is to render the batch rejected.</li> <li>• Two peaks are to be placed in a freezer at <math>-20 \pm 2^\circ\text{C}</math> for 2½ hours <math>\pm</math> 5 minutes. Immediately after removal, each peak is to be subjected to the following two tests using a mandrel of diameter <math>150 \pm 1\text{mm}</math></li> </ul>
<p>11.2 Edge test</p>	<div style="text-align: center;"> <p>Edge of peak to mandrel</p>  </div> <ul style="list-style-type: none"> <li>• Use the minimum of force required to bend the internal edge of the peak around the mandrel, ensuring free contact with the circumference of the mandrel. Repeat with the other side up. Examine both sides of the peak for fractures or cracks; any such damage on either peak is to render the batch rejected.</li> </ul>
<p>11.3 Flat test</p>	<div style="text-align: center;"> <p>Flat edge to mandrel</p>  </div> <ul style="list-style-type: none"> <li>• Use the minimum force required to bend the face of the peak around the mandrel, ensuring free contact with the circumference of the mandrel. Repeat with the other side up. Examine both sides of the peak for fractures or cracks; any such damage on either peak is to render the batch rejected.</li> </ul>

4. LABELLING REQUIREMENTS. Information and format is to be as follows:
- The size number, NATO Stock Number and the contract number is to be clearly marked on a label to be sewn to the centre of the crown lining.
  - Alternatively, clearly printed on a pressure sensitive self-adhesive label to be adhered to the crown lining.
  - The identification label is to be covered by the detachable crown disc.

IDENTIFICATION LABELS

Specimen label

Size
NSN
Contract Number

The size number is to be 1.2cm high and the remainder of the characters 0.6cm high