# Technical Specification for
# LACE, GOLD, ORNAMENTAL


## Defence Clothing

Integrated Project Team

PROPERTY OF :-
DEFENCE CLOTHING
INTEGRATED PROJECT TEAM
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PREFACE

TABLE 1 – PRODUCT LIST

| **Item Name** | LACE, GOLD, ORNAMENTAL | |
|---|---|---|
| **Nato Stock Number (NSN)** | **Pattern No.** | **Width** |
| 8315-99-130-8046 | 9510A (6mm) | 6mm |
| 8315-99-130-8047 | 9510A (13mm) | 13mm |
| 8315-99-130-8048 | 9510A (30mm) | 30mm |
| 8315-99-130-8049 | 9510A (42mm) | 42mm |
| 8315-99-130-8050 | 9510A (50mm) | 50mm |
| **Development File No.** | NN/SCD/P1815/3 | |
| **Product Support File No.** | NV/600/05 | |

IPR STATEMENT



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

TABLE 2 – ISSUE RECORD

| Issue No. | Comments | Issue Date |
|---|---|---|
| 2 | Specification reformatted, related specifications and documents updated | 2 August 2004 |
| 1 | Specification reformatted without technical change and re-issued as Issue 1. (May 2002) | 20 June 1986 |

PART 1

1. USE OF THE PRODUCT Gold coloured laces for Service shoulder straps.

TABLE 3 - RELATED SPECIFICATIONS AND DOCUMENTS

| Specification/Document | Detail |
|---|---|
| BS EN ISO 105 | Textiles. Tests for colour fastness |
| Part B02 | Colour fastness to artificial light: xenon arc fading lamp test |
| Part CO6 | Colour fastness to dry washing |
| Part X12 | Colour fastness to rubbing |
| BS EN 1049 | Textiles. Woven fabrics. Construction. Methods of analysis |
| Part 2 | Determination of number of threads per unit length |
| BS EN 1773 | Textiles. Fabrics. Determination of width and length |
| BS 2471 | Methods of test – woven fabrics, determination of mass per unit length and mass per unit area |
| ISO 7211 | Methods for preparation of a weave diagram |

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 be may used to provide the criteria for shade, handle, finish etc not fully defined in this specification.

PART 2

## 3. PRODUCT DESCRIPTION

TABLE 4 – PRODUCT COMPONENTS

| | |
|---|---|
| YARNS | • Warp yarns 100% cotton or suitable alternative<br>• Weft yarns wrap spun continuous filament viscose<br>• Wrap, of nylon or suitable alternative, is not to be visible so as to affect the appearance of the lace<br>• Evenly spun both warp and weft<br>• Quality at least equal to the Standard Pattern |
| CLOTH | • Weave as the appropriate Standard Pattern as in Table 8 to ISO 7211<br>• Uniformly woven without kinks<br>• Weft threads evenly spaced<br>• No objectionable grinning of warp through the weft<br>• Selvedges firm and straight |
| DYEING AND FINISHING | • Shade uniform throughout<br>• Handle, drape, shade and appearance to match the Standard Pattern<br>• To meet the requirements of Tables 6 and 7 |

TABLE 5 – SAMPLING AND COMPLIANCE TESTING

| | |
|---|---|
| SAMPLING | • 1 sample is to be taken from a finishing batch not exceeding 5 pieces<br>• 2 samples are to be taken from a finishing batch not exceeding 10 pieces<br>• Take samples not less than 20m from the end of a piece<br>• Identify the piece from which the sample was taken<br>• No samples from the same piece |
| COMPLIANCE TESTING | • All samples to meet the requirements in Tables 6 and 7<br>• Colour Fastness to Light:<br>  • if the first batch sample meets requirements, no further testing required provided the dye formulation stays the same<br>  • if the dye formulation is changed, light fastness is to be re-tested<br>• If a sample does not meet any requirement, 2 further samples from two different pieces in the same batch are to be tested<br>• If either re-test samples does not meet all requirements, the whole batch is to be rejected<br>• If both re-test samples meet all requirements, the batch can be accepted except for the piece from which the failed sample was taken |

TABLE 6 - PHYSICAL PERFORMANCE REQUIREMENT

| Pattern Number | BS EN 1773 | BS 2471 | BS EN1049- 2 | |
|---|---|---|---|---|
| | Width mm ±1 | Mass per unit length g/m Minimum | Threads number | |
| | | | Warp threads in total | Weft per cm Minimum |
| 9510A (6mm) | 6 | 3 | 34 | 85 |
| 9510A (13mm) | 13 | 5.5 | 58 | 85 |
| 9510A (30mm) | 30 | 11 | 104 | 85 |
| 9510A (42mm) | 42 | 17 | 156 | 85 |
| 9510A (50mm) | 50 | 18 | 180 | 85 |

TABLE 7 –MINIMUM COLOUR FASTNESS REQUIREMENTS

| METHOD OF TEST | | | | |
|---|---|---|---|---|
| BS EN ISO 105 | | | | |
| B02 | X12 | | CO6 : B2 | |
| Light | Rubbing | | Washing | |
| Rating | Dry | Wet | Colour Change | Staining |
| Min | Min | Min | Min | Min |
| 5 | 4 – 5 | 4 – 5 | 4 | 4 |

TABLE 8- WEAVE DIAGRAM