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22 January 1981
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5 December 1974

MILITARY STANDARD

PROVISIONS FOR EVALUATING QUALITY

OF

CAP CROWNS



FSC 8405

DEPARTMENT OF DEFENSE

WASHINGTON, D. C. 20301

Provisions for Evaluating Quality of Cap Crowns

- * 1. This standard has been approved by the Department of Defense and is mandatory for use by the Department of the Navy and Air Force.
- 2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Officer in Charge, Navy Clothing and Textile Research Facility, 21 Strathmore Road, Natick, MA 01760, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FOREWORD

This standard provides a standardized procedure for evaluating quality of cap crowns procured by the Department of Defense.

The objectives of this standard are to:

- (a) Provide standard description for defects.
- (b) Standardize examination requirements.

Specifications that will reference this standard are:

MIL-C-17620(SA) - Crown, Service Cap (Man's)

MIL-C-18186(MC) - Crowns, Service Cap

MIL-C-23315(MC) - Crowns, Service Cap

MIL-C-26804(USAF) - Cover, Service Cap, Air Police, White

MIL-C-38182(USAF) - Cover, Service Cap, Man's, Water Resistant

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1. SCOPE

- 1.1 <u>Purpose</u> The purpose of this standard is to provide standardized provisions for evaluating the quality of cap crowns.
- 1.2 Application This standard will be made applicable to contracts by reference in the appropriate cap crown specifications.

*2. REFERENCE DOCUMENTS

SPECIFICATIONS

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MIL-C-17620(SA) - Crown, Service Cap (Man's)
MIL-C-18186(MC) - Crowns, Service Cap
MIL-C-23315(MC) - Crowns, Service Cap
MIL-C-26804(USAF)- Cover, Service Cap, Air Police, White
MIL-C-38182(USAF)- Cover, Service Cap, Water Resistant
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STANDARDS

FEDERAL

FED-STD-4 - Glossary of Fabric Imperfections

MILITARY

MIL-STD-105 - Sampling Procedures and Tables for Inspection by
Attributes

MI1-STD-109 - Quality Assurance Terms and Definitions

(Copies of specifications, standards, drawings and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

3. DEFINITIONS

- 3.1 Fabric defects The fabric defect definitions applicable to the standard are described in FED-STD-4.
- 3.2 Quality assurance terms Definitions of quality assurance terms shall be in accordance with MIL-STD-105 and MIL-STD-109.

- *3.3 Open seam or stitching The seam shall be classified open when one or more stitches joining a seam are broken or when two or more continuous skipped or runoff stitches occur.
- 3.4 Knots and slubs Only knots and slubs that exceed the limits specified in the basic cloth specification shall be scored as defects in evaluating quality of the Cap Crowns.

4. GENERAL

*4.1 This standard contains the provisions for end item examination, dimensional examination and the examination of packaging inspection for service cap crowns. If there are any inconsistencies between the requirement of the appropriate specification and the provisions of the standard, the specification shall control. This standard assigns to the listed defects, point values of 1, 2, or 3 depending on degree of severity. The higher point values are assigned to those defects having more detrimental effect on the appearance or serviceability of the item.

5. SAMPLE AND INSPECTION PROVISIONS

- 5.1 End item examination The cap crowns shall be examined and all defects shall be penalized as indicated in Table II of this standard. The sample size shall be as specified in Table I. The sample unit shall be one finished cap crown. The lot shall be unacceptable if:
 - (a) The point value for 3 and 2 point defects exceeds the applicable maximum acceptable point value

or

- (b) The point value for total (3, 2, and 1 point) defects exceeds the applicable maximum acceptable point value.
- 5.2 Dimensional examination The appropriate number of cap crowns, determined from the table below, shall be examined for conformance to the dimensional requirements cited in the table of measurements of the appropriate crown specification. When a measurement deviates from a dimension and tolerance specified, the cap crown shall be penalized one point. The lot shall be unacceptable if the total point value exceeds the applicable point values specified below. Each size cap crown present in the lot shall be represented in the sample selected for this examination.

Lot size	Sample size	Point limit value
Up thru 500	8	0
501 thru 3200	13	1
3201 thru 35,000	20	2
35,001 and up	32	3

*5.3 Packaging inspection An examination shall be made to determine that packaging, packing and marking requirements are in compliance with Section 5 of the appropriate specification. Defects listed below shall be scored one point. The sample size for this examination shall be five shipping containers fully prepared for delivery with the exception that they need not be closed. Examination for the closure defects listed below shall be made. The lot shall be unacceptable if one or more points are scored for this examination.

Examine	Defect
Marking (exterior and interior)	Omitted; incorrect; illegible; of improper size, location, sequence or method of application.
Materials	Any component missing, damaged, or not as specified.
Workmanship	Inadequate application of components, such as: incomplete closure of container flaps, loose strapping, improper taping, inadequate stapling. Bulged or distorted container, omission of vent hole (as applicable) in polyethylene bag, and open and non-continuous heat sealed seams (as applicable), and closure of polyethylene bag. 1/
Content	Number of intermediate packages per shipping container is more or less than required. Number of cap crowns per intermediate package is more or less than required. Size shown on one or more cap crowns not as specified on shipping container. 2/

^{1/} One polyethylene bag from each shipping container in the sample shall be examined.

^{2/} For this defect, one intermediate package from each shipping container in the sample shall be examined.

Table I - Sampling Provisions

			Maximum acc point va	lues
	Total admin	Sample	3&2 point	3,2&1 point
	Lot size	<u>size</u>	defects	defects
Normal	Up thru 90 1/	20		
Inspection	91 thru 150	32	3 points	5 points
•	151 thru 280	50	5 points	8 points
	281 thru 500	80	8 points	13 points
	501 thru 1200	125	12 points	18 points
	1201 thru 3200	200	16 points	25 points
	3201 thru 10,000	315	24 points	37 points
	10,001 thru 35,000	500	32 points	47 points
	35,001 and over	800	48 points	75 points
	1		Maximum acc	eptable
			point va	_
		Sample	3&2 point	3,2&1 point
_	Lot size	size	defects	defects
Tightened	Up thru 90 1/	20 32		
Inspection	91 thru 150 <u>1</u> / 151 thru 280	50	2 noints	5 noints
	281 thru 500	80	3 points 5 points	5 points 8 points
	501 thru 1200	125	8 points	14 points
	1201 thru 3200	200	12 points	20 points
	3201 thru 10,000	315	18 points	30 points
	10,001 thru 35,000	500	28 points	45 points
	35,001 and over	800	42 points	68 points
	JJ, VOI und OVEI	000	42 points	oo poinco
			Maximum acc	eptable
			point valu	
		Sample	3&2 point	3,2&1 point
	Lot size	size	defects 2/	defects
Reduced	Up thru 90 1/	8		
Inspection		13		
-morece ton	151 thru 280	20	3-5 point	s 7 points
	281 thru 500	32	4-7 point	-
	501 thru 1200	50	5-9 point	-
	1201 thru 3200	80	7-11 point	
	3201 thru 10,000	125	12-16 point	
	10,001 thru 35,000	200	16-20 point	•
,	35,001 and over	315	23-27 point	
			•	•

^{1/2} For this inspection use first sampling plan below. If sample size equals or exceeds lot or batch size, do 100 percent inspection.

^{2/} If the first value is exceeded but the second value has not been exceeded, accept the lot but reinstate normal inspection (see 6.4.4b). The second value is the maximum acceptable point value.

6. INSPECTION

- *6.1 <u>Inspection procedures</u> Inspection shall be as specified in MIL-STD-105, except where otherwise indicated in this document.
- *6.2 <u>Initiation of inspection</u> Normal inspection will be used at the start of inspection unless otherwise directed by the procurement quality assurance element administrating the contract.
- 6.3 Continuation of inspection Normal, tightened or reduced inspection shall continue unchanged on successive lots except where switching procedures in 6.4 require change.

6.4 Switching procedures

- 6.4.1 Normal to tightened When normal inspection is in effect, tightened inspection shall be instituted when two out of five consecutive lots have been rejected on original inspection (i.e., ignoring resubmitted lots for this procedure).
- 6.4.2 <u>Tightened to normal</u> When tightened inspection is in effect, normal inspection shall be instituted when five consecutive lots have been considered acceptable on original inspection.
- *6.4.3 <u>Normal to reduced</u> When normal inspection is in effect, reduced inspection shall be instituted providing that all of the following conditions are satisifed:
 - a. The preceding 10 lots have been on normal inspection and none have been rejected on original inspection; and
 - b. The total number of points for 3 and 2 point defects in the samples from the preceding 10 lots is equal to or less than sixty percent of the total maximum acceptable point values for 3 and 2 point defects from the preceding 10 lots; and
 - c. The total number of points for 3, 2, and 1 point defects in the sample from the preceding 10 lots is equal to or less than seventy-five percent of the total maximum acceptable point values for 3, 2, and 1 point defects from the preceding 10 lots; and
 - d. Production is at a steady rate; and
 - e. Reduced inspection is considered desirable by the procurement quality assurance element administrating the contract.
- 6.4.4 Reduced to normal When reduced inspection is in effect, normal inspection shall be instituted if any of the following occur on original inspection.
 - a. A lot is rejected; or
 - b. A lot is considered acceptable but exceeds the applicable first value (see 2/ to Table I); or
 - c. Production becomes irregular or delayed; or
 - d. Other conditions warrant that normal inspection be reinstituted.

Table II - Classification of defects

Point	Value
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A GENERAL	DEFECTS
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I.	MATERIAL	D \overline{D} \overline{D} \overline{D} \overline{D} \overline{D} \overline{D} \overline{D}	A NTD	DAMACE
⊥.	TATECTAL	DELECT	AIND	DATAGE

MAT	ERIAL DEFECT AND DAMAGE	
а.	Hole, cut, tear, smash, mend, needle chew, burn, drill hole, scorched area or open place:	
	1. On outside (longest dimension in any direction):	
	(a) -up to 1/4 inch, inclusive(b) -more than 1/4 inch	2 3
	2. On inside (longest dimension in any direction):	
	(a) -up to 1/4 inch, inclusive (b) -more than 1/4 inch	1 2
ъ.	Loose yarn, snagged thread, misweave, coarse yarn, area of no dye penetration, dye streak, missing yarn, broken yarn, thin place, shade bar or woven in waste:	
	1. On outside (longest dimension in any direction):	
	(a)-up to 1/4 inch, inclusive (b)-more than 1/4 inch	1 3
	2. On inside	1
c.	Permanent fold, pleat or crease in cloth (when caught in seaming or stitching):	
	- on outside	3
d.	Knot or slub (see 3.2) on outside	2
e.	Braid:	
	 Poorly constructed (i.e., not evenly woven) Cut or frayed edges, slack or poorly 	2
	constructed edge 3. Any broken yarn	2

	Point valu
Table II - Classification of defects (cont'd)	
f. MIL-C-38182(USAF)	
 Any pinhole, blister, pick-off in coating or coating flaky Coating uneven, lumpy, abraded or thin Coating tacky or contains imbedded foreign matter 	3 1 2
II SHADED PARTS	
On outside:	
- any part shaded	2
III CLEANNESS	
*a. Any spot or stain:	
1. On outside (largest dimension in any direction)	
 (a) up to 3/8 inch, inclusive (b) more than 3/8 inch up to 3/4 inch inclusive (c) more than 3/4 inch 	1 2 3
 On inside, but not visible on outside 3/4 inch or more On inside and visible on outside (use outside defect classification listed above) 	1
 Any marking exposed or visible on outside Three or more thread ends on outside not trimmed 	3
to 3/8 inch d. Two or more shade or size tickets not removed	1 1
IV COMPONENT AND ASSEMBLY	
 a. Any component part or operation omitted (unless otherwise classified herein) b. Any component not as specified c. Any component not assembled as specified 	3 3 3
 d. Any component part tight, twisted, distorted, pleated or full (unless otherwise classified herein) e. Any operation not as specified (unless otherwise) 	2
classified herein)	1

Table II - Classification of defects (cont'd)

Point Value

V	α	тт	ING
v	u	ıΤΤ	TIME

Any component part not cut in accordance with specified pattern, directional lines on patterns or not in accordance with specification requirements.

VI SEAM AND STITCHING

a. Accuracy of seaming:

1.	Seam puckered (unless otherwise classified herein)	1
2.	Seam irregular, pleated or wavy	2
3.	Part caught in any unrelated operation or	
	stitching	2
4.	End of stitching when not caught in another	
	seam or stitching not finished as specified	1
5.	Stitching overlapping end of thread break	
_	less than 1/2 inch	1
6.	End of a continuous line of stitching over-	
	lapped less than 1/2 inch	1
7.	Not specified color thread used on outside	2

b. Gage of stitching and seam allowance:

Ι.	Edge, top or raise stitching sewn too close	
	to edge resulting in damage to cloth	3
2.	Seam allowance not as specified by 1/16 inch	
	or more (score only when condition exists on	
	more than $1/2$ the length of the seam)	1
3.	Irregular or not within range specified or	
	varies more than 1/16 inch when no range is	
	specified (score only when condition exists	
	on more than 1/2 the length of the seam)	1

c. Open seam:

1.	More than 3/4 inch	3
2.	More than 3/8 inch up to 3/4 inch, inclusive	2
	In to 3/8 inch inclusive	1

Table II - Classification of defects (cont'd)

		·	Point Value
			102112 14240
VI	SEAM	AND STITCHING (cont'd)	
	, d .	Raw edge:	
		1. On outside	
		(a) - up to 3/8 inch, inclusive	. 1
		(b) -more than 3/8 inch up to 3/4 inch, inclusive	2
		(c) -more than 3/4 inch	3
		2. On inside:	
		(a) - $1/4$ inch up to 1 $3/4$ inches, inclusive	1
		(b) -more than 1 3/4 inches	2
	e.	Seam and stitch type:	
,		1. Not specified seam or stitch type	3
		 Any line of stitching omitted or insecure Any line of stitching not beginning or ending where specified (unless otherwise classified 	2
		herein)	1
		4. Looper thread of 401 stitch type on outside	3
	f.	Stitch tension:	
•		1. Loose tension resulting in a loose seam	3
		 Loosely exposed loops of lower or top thread Tight tension (stitches break when normal 	2
		strain is applied in the direction of the seam or stitching)	3 ·
	g.	Stitches per inch (score only when condition exists on more than 1/2 the length of seam):	
		 More than the maximum specified Less than the minimum specified: 	1
		(a) -by one or two stitches	1
		(b) -by three or more stitches	2
	h.	Runoff, skipped or broken stitch:	•
		 Joining seam - use "open seam" classification Edge, top or raised stitching (more than 	-
		1/4 inch)	1

VII

Table II - Classification of defects (cont'd)

			Point Value
VII	EYE	LET	
	a.	One or more omitted or added	3
	b.	Chipped, broken, cracked, split or bent	3
	c.	Loose or raw edges exposed around edges of eyelet on outside	3
	d.	Not securely clinched or clinched too tightly cutting the fabric	3
	e.	Washer broken, bent or otherwise defective (where required)	2
	f.	MIL-C-18186 (MC):	
		1. Front eyelet	
		(a) -front eyelet not reinforced on underside with brass washer	3 3
		(b) -front eyelet not set on front quarter seam(c) -positioned more than 1/16 inch off center(d) -front eyelet not centered with width of front quarter:	2 .
		(1) -by more than 1/8 inch, but not more than 1/4 inch(2) -by more than 1/4 inch	2 3
		2. Side eyelets (position):	
		(a) -side eyelets out of horizontal alignment:	
		(1) - by 1/4 inch or more but not more than 3/8 inch	2
		(2) -by more than 3/8 inch	3
		 (b) -side eyelets misplaced from midpoint be- tween crown and band by more than 1/4 inch (c) -position of side eyelets from each side 	n 2
		of side seams less than 7/8 inch or more than 1 1/8 inches	2
VII	Į BA	ND	
	a. h	Outside puckered, pleated or twisted Other than one piece of material	3 3

VIII BAND (cont'd)

, 111 2/6		Point Value
c.	MIL-C-17620(SA):	
	1. The back seam formed when joining the ends	
	of the band not pressed flat, when applicable	1
	2. The finished band less than 1 3/8 inches	•
	or more than 1 5/8 inches wide	2
	3. Overedge stitching in the joining of the band to the flare omitted	. 1
	4. The finished hem of band less than 1/4	· 2
	inch or more than 3/8 inch wide	1
	5. The back seam not aligned with the back seam of the flare by 3/16 inch or more	1
•		
d.	MIL-C-18186(MC) and MIL-C-23315(MC):	
	1. Band less than 1 5/8 inches or more than	
	1 3/4 inches wide	2
	 Irregular in width by more than 1/8 inch Back seam not aligned with back quarter 	2
	seam by 3/16 inch or more	2
	4. Upperside twisted or too full, affecting	
	smoothness on outside	2
	5. Band overlapping quarters at joining seam	3
IX BIND	ING (when applicable)	•
a.	Omitted	3
ъ.		1
c.	The binding strip not turned under and positione evenly over the flare and top piece seam	d 1
đ.	The binding tape finished less than 7/16 inch	1
	or more than 9/16 inch wide on major portion of	
	seam	. 1
e.	The end of binding tape overlapped less than 1 1 inches at center of back seam)
X SNAP	FASTENERS	
a.	Stud or socket missing, broken, bent, deformed or otherwise defective not permitting proper	•
•	function	3
ъ.	Any socket out of alignment with corresponding s	
c.	causing noticeable bulge when fastened Stud or socket clinched too tightly cutting the	2
	surrounding fabric	3

		<u> </u>	oint Value
XI 1	LABE	L .	
	а.	Missing, incorrect or illegible:	
		 Size or combination label Identification label 	3 1
	b. c.	Not attached as specified Misplaced or stitching through printing	1 1
XII	CRO	WN PIECE OR TOP PIECE	
	a. b.	Other than one piece MIL-C-17620(SA)	. 3
		 puckering in the joining of the top piece to the flare 	2
	c.	MIL-C-18186(MC), MIL-C-23315(MC) and MIL-C-26804	(USAF):
		 Poorly shaped Crown pleated at joining to quarters Crown puckered at joining to quarters Crown unevely joined to quarters, i.e., twis puckering or pleating around the edge Joining seam not topstitched or not pressed Topstitched seam not worked out, distorting tour of edge 	open 2
XII	I C	CROWN LINING OR TOP PIECE LINING	
	a. b.	Omitted, not material specified Tight or twisted appearance on outside of crown	3 3
XIV	FLA	ARE	
	a.	MIL-C-17620(SA):	
		 Other than three pieces of material The seam formed when joining the three piece of flare not pressed flat, when applicable The finished flare at center of front less 	3 es
		than 2 1/8 inches or more than 2 3/8 inches	
		4. The finished flare at center of back less the 1 7/8 inches or more than 2 1/8 inches	ian 2

Point Value

ΧV	RIII	የተገኘ	Ċ

a.	MIL-C-38182(USAF)	

		1.	Missing, broken, defective, misplaced, not as specified, or insecurely sewn	2
IVX	BU'	TTON	HOLE .	
	a. b. c. d. e. f. g. h.	Otho Sti- Sti- One One Any Ragg	buttonhole omitted er than type or size required tches not securely caught in fabric, causing tches to pull away from fabric or more broken stitches in one buttonhole or more broken stitches in two buttonholes buttonhole uncut ged buttonhole -C-17620(SA):	3 3 1 2 2 1
		1. 2. 3.	Length of any buttonhole less than 11/16 inch or more than 13/16 inch Any buttonhole positioned less than 1/8 inch or more than 3/16 inch from bottom folded edge of band to center of buttonhole Any buttonhole positioned less than 5 3/8 inches or more than 5 5/8 inches from center front of cap crown to center of buttonhole	1
	i.	MIL.	-C-18186(MC):	
		1. 2.	Less than 3/4 inch or more than 1 inch in length Positioned from bottom edge of band:	1
			 (a) -less than 5/16 inch but not less than 1/4 inch or more than 7/16 inch but not more than 1/2 inch (b) -less than 1/4 inch or more than 1/2 inch 	1 2
		3.	Position of center of buttonhole from center front of crown:	
			 (a) -less than 5 5/8 inches but not less than 5 1/2 inches or more than 5 7/8 inches but not more than 6 inches (b) -less than 5 1/2 inches or more than 6 inches 	1 2

	Point	va⊥ι
XVI BUT	TONHOLE (cont'd)	
j.	MIL-C-23315(MC):	
	 Less than 3/4 inch or more than 1 inch in length Positioned from bottom edge of band: 	1
	 (a) -less than 3/16 inch but not less than 1/8 inch or more than 5/16 inch but not more than 3/8 inch (b) -less than 1/8 inch or more than 3/8 inch 	1 2
	3. Position of center of buttonhole from center front of crown:	
	 (a) -less than 5 5/8 inches but not less than 5 1/2 inches or more than 5 7/8 inches but not more than 6 inches (b) -less than 5 1/2 inches or more than 6 inches 	1 2
k.	MIL-C-38182(USAF):	
	- gimp omitted	2
XVII FI	APS	
a.	MIL-C-38182(USAF):	
•	 Any omitted Placed more than 1/4 inch from notches Stitches through webbing 	3 2 1
XVIII W	JÉBBING	
a.	MIL-C-38182(USAF):	
	 Ends of webbing not joined Length of webbing not as specified 	3 2
XIX HEN	1	
a.	MIL-C-38182(USAF):	

-less than 11/16 inch or more than 13/16 inch wide 1

Point Value

XX	7	т.	n.	ΑT	TZT
$\Delta \Lambda$	J	L L	ш	IN	${f EL}$

a.	MIL-	C-38.	182 ((USAF)	
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- less than 7/16 inch or more than 9/16 inch 1

XXI BLOCKING

a. MIL-C-17620(SA):

1.	Blocking omitted	3
2.	Crown burned or scorched	3
3.	Poorly blocked, causing a shine or wrinkle	7

Custodian:

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