

GOLF SHIRTS, MEN'S & WOMENS (SHORT SLEEVE)

Reference item No. 35/158259 (Mens) "New Transnet logo": Supply
item No. 35/158385 (Womens) "New Transnet logo": Supply
item No. 35161318 (Unisex – mens size chart) Transnet logo & Hazmat logo

1. Scope

NOTES

- 1) The following requirements will be specified in tender invitations and in each order or contract:

The size(s) required (see 4.4).

- 2) Special conditions of tender (that cover the conditions of acceptance of the knitted shirts) are given in annex A.

2. Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this specification. All the standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of a standard, parties to agreements based on this specification are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards may be obtained from the South African Bureau of Standards.

- CSS 286.21, Clothing - LAB/1: Labeling - PAC/1: Packing and marking.
- CKS 129, Colours for textiles.
- CKS 627, Fusible interlinings.
- SABS 877, Woven cotton tapes.
- SABS 1360-1, Size designation of clothes - Part 1 : Men's and boys' outerwear, garments.
- SABS 1362, Sewing threads.
- SABS 04, Terms and definitions for textiles and textile merchandise.
- SABS 0101, Standard nomenclature for stitches, seams and stitchings.
- SABS 0188, Standard methods of garment measurement.
- SABS method 79, Mass per unit area of conditioned textile fabrics
- SABS method 275, Wales and courses per unit length in knitted textile fabrics (counting glass method)).
- SABS method 405, Colour fastness of textiles to artificial light : Xenon lamp method.
- SABS method 443, Textiles - Colour fastness to washing - Test 2.
- SABS method 731, Textiles - Colour fastness to perspiration (histidine method).
- SABS method 960, Dimensional changes of textile fabrics during washing.

3. Definitions

Following definitions apply :

3.1 acceptable : Acceptable to Transnet Limited.

3.2 nominal : Subject to the tolerances normal to good manufacturing practice.

4. Requirements

4.1 Materials

NOTE No material will be supplied by Transnet Limited.

4.1.1 General

The materials specified in 4.1.2 to 4.1.5 shall be supplied and used by the manufacturer.

4.1.2 Knitted fabric

The knitted fabric shall comply with the requirements given in table 1. The colour shall be an acceptable match to colour No. 616c- Navy blue colour acceptable to Transnet Limited, both of CKS 129.

4.1.3 Interlining

A fusible interlining that complies with the requirements of CKS 627 for interlinings that are suitable for use in garments that will be washed. The mass per area shall be such that the interlining is suitable for use in the placket.

NOTE - The selection of an interlining of appropriate mass per unit area shall be determined by consultation with the supplier(s) of the interlining.

4.1.4 Stay tape

A tape that complies with the requirements for type TA13 of SABS 877.

4.1.5 Buttons

Two-hole fully impregnated dope-dyed polyester buttons of an acceptable match to the body cloth and nominal diameter of 11 cm.

4.1.6 Threads

4.1.6.1 Sewing thread

The sewing thread shall comply with the relevant requirements of SABS 1362 and shall be polyester-and-cotton core-spun thread, ticket No. 75, or a staple polyester thread, ticket No. 60.

4.1.6.2 Cover thread

The same yarn as that used in the knitted fabric.

Table 1 - Knitted fabric requirements

1	2	3
Property	Requirement	Method of test
Composition	67% polyester %33% Cotton	Microscopical examination and chemical analysis
Construction	Pique knit	Visual examination
Courses per 1 cm, min.	10.5	SABS SM 275
Wales per 1 cm, min.	9.5	SABS SM 275
Stitch length, mm, max.	3.10	SABS SM 1104
Mass per unit area, g/m ² min.	200	SABS SM 79
Dimensional changes on washing, %, max.		SABS SM 960
Length	10	Procedure A1 ¹⁾
Width	10	
Colour fastness to light, rating, min.	5	SABS ISO 105 BO2
Colour fastness to washing, rating, min.		SABS ISO 105 CO3
Change in colour	4	
Staining of transfer cloths	4	
Colour fastness to perspiration, rating, min.		SABS ISO 105 EO4
Change in colour	4	
Staining of transfer cloths	4	

1) Test in tubular form and tumble dry for 20 min at 70EC.

4.2 Workmanship

The shirts shall be made with first-class workmanship throughout and shall be free from defects that affect their appearance or may affect their serviceability (or both), and from marks, spots and stains incurred in the making-up. All seams shall be smooth and all stitching uniform and free from twists, pleats and puckers. All ends of sewing shall have been trimmed and loose threads removed. The shirts shall be of uniform and acceptable make, colour and finish.

4.3 Style

The shirts (see figure 1) shall have short sleeves, a turn down collar, and a four-button opening at the front.

4.4 Sizes

The shirts shall be supplied in one or more of the size designations given in column 1 of table 2 & 3 as specified in the order or contract, and their measurements shall conform to the appropriate values given in columns 2 to 9(inclusive). The pattern shall conform to the specification and the “sealed sample” and shall be drafted by the manufacturer. Sealed sample is held by, and may be viewed at, the Clothing Division.

Mens Size chart (Table 2)

1	2	4	5	6	7	8	9
Size designation 1)	Nominal finished garment measurements, cm						
	Chest	½ Hem	Back length	Back Width	Neck Circum.	Sleeve Under-arm	Cuff
72-77 (XS)	90	45	70	36	36	18	38
82-87 (S)	100	50	74	40	38	18	40
92-97 (M)	110	55	77	44	40	19	42
102-107 (L)	120	60	80	48	42	19	44
112-117 (XL)	130	65	82	52	44	20	46
122-127 (2XL)	140	70	84	56	46	20	48
132-137 (3XL)	150	75	86	60	48	21	50
142-147 (4XL)	160	80	88	64	50	21	52
152-157 (5XL)	170	85	88	68	52	22	54
162-157 (6XL)	180	90	88	72	54	22	56

1) Based, on the chest girth, in centimeters, of the intended wearer.

Womens Size chart (Table 3)

1	2	4	5	6	7	8	9
Size designation 1)							
	Bust	Hem	Back length	Back Width	Sleeve Under arm	Neck Circu m.	Cuff
72-77 (XS)	80	86	65	30	7	37	32
82-87 (S)	90	96	66	34	7	39	34
92-97 (M)	100	106	67	38	8	41	36
102-107 (L)	110	116	68	42	8	43	38
112-117 (XL)	120	126	69	46	9	45	40
122-127 (2XL)	130	136	70	50	9	47	42
132-137 (3XL)	140	146	71	54	10	49	44
142-147 (4XL)	150	156	72	58	10	51	46
152-157 (5XL)	160	166	73	62	11	53	48
162-157 (6XL)	170	176	74	66	11	55	50

1) Based, on the bust girth, in centimeters, of the intended wearer.

4.5 Make

NOTE - Unless inconsistent with the text, all measurements are nominal.

4.5.1 Body

The body shall consist of two parts, i.e. a front and a back, that are overlapped together at the sides and shoulders. The lower edge of the body shall be overlapped, turned under and hemmed 30mm. Each shoulder shall be stayed on the inside with stay tape (see 4.1.4), or with body fabric of width (in the direction of the courses) 10mm, that is sewn in with the shoulder seam.

4.5.2 Sleeves

The sleeves shall be short set-in sleeve, overlapped under the arms.

4.5.3 Collar

- a) The knitted collar shall have a 4 mm white in woven stripe 7 mm from edge

4.5.4 Plackets

The placket to have a length of 17 cm for size medium and graded proportionally, and a width of 40 mm.

Two buttonholes shall be positioned centrally in the left side placket and one in the collar stand with button (4.1.6) sewn to the right side of placket, to correspond with buttonholes.

The top buttonhole shall be horizontal and the lower two, vertical.

4.5.5 Pocket

The pocket on the left hand side shall be a patch pocket of body fabric, interlined with fusible interlining (see 4.1.4).

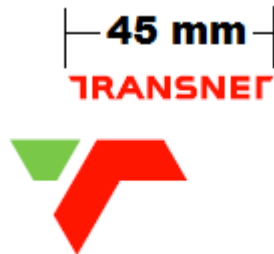
The pocket shall have 25 mm blunted corners. The finished pocket width and depth shall be 13 cm and 14 cm respectively. The pocket mouth shall have a hem of finished width 30 mm and the free edge shall be overlocked and shall be topstitched. The edges of the pocket shall be turned in and stitched down 2 mm from the edge.

Each end of the pocket mouth to be vertically box tacked with a finished width and length of 5 mm and 15 mm respectively. The pocket shall be positioned vertically, 70 mm from the centre of the placket for size m (92-97) and 21 cm from the collar/shoulder seam.

4.5.6 Logo

The **Transnet** logo shall be embroidered on the pocket, positioned centrally below the hem .

The colour shall be an acceptable match to colour No 1C –95 “White of CKS 129 (See fig. I



For reference no. 35/161190, Hazmat logo to be on the right hand side chest when worn.



4.6 Stitches, seams and stitchings

4.6.1 General

All sewing shall be in accordance with SABS 0101.

4.6.2 Stitches

The stitches shall be as follows:

- a) attaching of pocket : stitch type 301; and
- b) all other sewing : stitch type 504 or other acceptable type of overlocking stitch.

4.6.3 Seams

The seams shall be as follows:

- a) attaching of pocket : seam type LSd; and
- b) all other seams: seam type SSa and finished with cover thread (See 4.1.6.2).

4.6.4 Stitchings

Stitching type EFa.

4.6.5 Number of stitches

The number of stitches per 10 cm (for both seams and cover thread) shall be 40 ± 4 throughout.

5 Labeling, packing and marking

5.1 Labeling

As specified in CSS 286.21 LAB/1.

5.2 Packing and marking

As specified in CSS 286.21 PAC/1.

NOTE:

For all materials supplied by the manufacturer, the manufacturer must supply Transnet with the certificate of compliance for the respective material, for every consignment received at the manufacturers factory.

Where SABS mark bearing cloth will be used a certificate to this extend must be supplied by the manufacturer of the garments.

Annex A
(Normative)

Special conditions of tender

A-1 Unless otherwise stated, the Executive Manager, (Transnet) (or an officer or organization deputed by him), shall be the inspecting authority.

A-2 Three pre-production samples of Golf shirts, shall have been inspected, tested and approved by the inspecting authority before bulk production is commenced, and these samples shall each be accompanied by a trim chart containing a sample of each component material (as given in 4.1.2 to 4.1.7.2). It shall be the duty of the manufacturer to give adequate notice to the inspecting authority of the availability of these samples.

A-3 The Golf shirts shall be subject to inspection during the course of manufacture. The inspector shall, during normal working hours, be given all reasonable facilities for carrying out his duties and shall have the right of entry into the contractor's factory and the factory or works of any subcontractor where work on suits or individual garments supplied to this specification may be in progress.

A-4 The contractor shall inspect the finished Golf shirts for compliance with the specification before submitting them to the inspecting authority for final inspection.

A-5 Before acceptance, the Golf shirts shall have been inspected and tested by the inspecting authority and found to comply with the requirements of the specification.

REVISION HISTORY SHEET		
Document Quality Assurance		Document No.
Subject ADMINISTRATION, PREPARATION, MAINTENANCE AND DISTRIBUTION OF PRIVATE SPECIFICATIONS		Effective date
Controlling Officer: R. Steynberg		
Approving Officer: C.J.V. du Plooy		
Rev/No	Date approved	Nature of revision
1	June	1) Add Hazmat ref. 35/161318
2	June 2013	1) Add construction requirements – courses & wales
3	September 2016	1) Incorporated the different option Logo Format (4.5.6) 2) specified that the Hazmat logo has to be on the right hand chest when worn. (4.5.6)
4	June 2019	1) Incorporate the Hazmat and Transnet Logo