

China Standard FZ/T 73018-2021 (wool knitting goods) Recently Published and Effective Since July 1st, 2021

The new edition of the China standard has some major changes, including but not limited to, removing the Class 2 quality grade, introducing the requirements of dimensional stability to dry cleaning, colourfastness to transfer in joint (contrast colour staining), antibacterial (if claimed), and AP+APEO restriction, The main differences between old and new editions are shown in below table, with changes highlighted.

No.	Item		FZ/T 73018-2012	FZ/T 73018-2021	Note
1	Scope		This standard is applicable to identify the quality of knitted worsted, woolen products made from pure wool or blends with 30% or more wool content, it may be applicable for other animal hair fiber products by reference.	This standard is applicable to identify the quality of knitted worsted, woolen products made from pure wool or blends with 30% or more wool content, and products jointed with other fabric type , it may be applicable for other animal hair fiber products as reference. This standard is not applicable for infant aged 36 months and below.	/
2	Terminology		None	Add the definition of boiled wool knitting goods	
3	Grading		High / Class 1 / Class 2	High / Class 1 / Pass	Quality grading aligned with other industry standards
4	Safety Requirement		Meet GB 18401	Meet GB 18401, and meet GB 31701 for children's product	/
5	Quality Requirement	Fiber content	Comply with FZ/T 01053	Comply with GB/T 29862	2021 version change method reference FZ/T 10195 to GB/T 38015, add FZ/T 01112
		Dimensional change to washing	Hand washable –relaxation change: <u>Cardigan, Pullover, Vest(not felted)</u> : Lengthwise ≥-10%, Widthwise -8%~+5% <u>Underwear</u> : Lengthwise ≥-10%, Widthwise ≤+5% Hand washable – felting change: <u>Cardigan, Pullover, Vest(not felted)</u> , <u>Underwear, Small accessory</u> : Area ≥-8%; <u>Sock</u> : Lengthwise≥-10% Hand washable – total change: <u>Cardigan, Pullover, Vest(felted)</u> : Lengthwise ≥-5%, Widthwise ≥-5%, Area ≥-8% <u>Pant, Dress, Skirt</u> : Lengthwise ≥-5%, Widthwise ≤+5% Machine washable - relaxation change: <u>Cardigan, Pullover, Vest</u> : Lengthwise ≥-10%, Widthwise -8%~+5% <u>Underwear</u> : Lengthwise ≥-10%, Widthwise ≤+5% Machine washable - felting change: <u>Cardigan, Pullover, Vest, Underwear, Small accessory</u> : Area ≥-8%; <u>Sock</u> : Lengthwise ≥-10% Machine washable - total change: <u>Pant, Dress, Skirt</u> : Lengthwise≥-5%, Widthwise≤+5%	Hand washable –relaxation change: <u>Cardigan, Pullover, Vest(not boiled wool)</u> : Lengthwise ≥-10%, Widthwise -8%~+5% <u>Shirt, Blouse, Underwear</u> : Lengthwise ≥-10%, Widthwise ≤+5% Hand washable – felting change: <u>Cardigan, Pullover, Vest(not boiled wool)</u> , <u>Shirt, Blouse, Underwear, Small accessory</u> : Area ≥-8%; <u>Sock</u> : Lengthwise≥-10% Hand washable – total change: <u>Cardigan, Pullover, Vest(boiled wool)</u> : Lengthwise ≥-5%, Widthwise ≥-5%, Area ≥-8% <u>Pant, Dress, Skirt, Coat, Suit, Jointed Garment</u> : Lengthwise ≥-5%, Widthwise ≤+5% Machine washable - relaxation change: <u>Cardigan, Pullover, Vest</u> : Lengthwise ≥-10%, Widthwise -8%~+5% <u>Shirt, Blouse, Underwear</u> : Lengthwise ≥-10%, Widthwise ≤+5% Machine washable - felting change: <u>Cardigan, Pullover, Vest, Shirt, Blouse, Underwear, Small accessory</u> : Area ≥-8%; <u>Sock</u> : Lengthwise ≥-10% Machine washable - total change: <u>Pant, Dress, Skirt, Coat, Suit, Jointed Garment</u> : Lengthwise≥-5% Widthwise≤+5%	Both versions waive test for dry clean only products and non-jersey, while 2021 version only test jersey products for widthwise relaxation change. 2021 version has significant change in wash procedure due to FZ/T 70009 update. (see end of table)
		Dimensional change to drycleaning	No such requirement	Lengthwise -5%~+5% Widthwise -5%~+5%	New requirement added in 2021 version, test method as GB/T 19981.2, very delicate material procedure, 1 cycle, without iron and press

No.	item	FZ/T 73018-2012	FZ/T 73018-2021	Note	
5	Internal Quality Requirement	Pilling	High ≥3-4 Class 1 ≥3 Class 2 ≥2-3	High ≥3-4 Class 1 ≥3 Pass ≥2-3	2021 version waives test for features like hollowed structure, long floating yarn surface, brushed surface, waives test for socks and small size accessories, only test wool blends or simulated wool shell for jointed garments
		Bursting strength	Worsted: ≥32Nm: ≥245kPa <32Nm: ≥323kPa Woolen: ≥14Nm: ≥196kPa <14Nm: ≥225kPa	Worsted: ≥32Nm: ≥245kPa <32Nm: ≥323kPa Woolen: ≥14Nm: ≥196kPa <14Nm: ≥225kPa	2021 version adds the method option GB/T 7742.2, testing area 7.3cm ² ; but use GB/T 7742.1 for arbitration test
		AP & APEO	No such requirement	NP+OP≤10mg/kg NP+OP+NPEO+OPEO≤100mg/kg	New requirement added in 2021 version, test method as GB/T 23322
		Dichloro-methane Soluble Matter	High: ≤1.5% Class 1: ≤1.7% Class 2: ≤2.5%	High: ≤1.5% Class 1: ≤1.7% Pass: ≤2.5%	2021 version: only test for woolen part with 30% or more animal hair; waive test if containing polyester, polypropylene, acetate or triacetate.
		Coverage factor	≥1.0	As agreed between related parties	2012 & 2021: only test for woolen jersey / rib / interlock product
		Colourfastness to washing	High: colour change≥3-4 colour staining on wool≥4 colour staining on others≥3-4 Class 1: colour change≥3-4 colour staining≥3 Class 2: colour change≥3 colour staining≥3	High: colour change≥3-4 colour staining≥3-4 Class 1: colour change≥3-4 colour staining≥3 Pass: colour change≥3 colour staining≥3	Both versions waive test for products that are not washable per care instruction. 2021 version has wash procedure updated to GB/T 12490-2014, hand wash A1S without steel balls, machine wash B2S without steel balls
		Colourfastness to drycleaning	High: colour change≥4 colour staining≥3-4 Class 1: colour change≥3-4 colour staining≥3 Class 2: colour change≥3-4 colour staining≥3	High: colour change≥4 colour staining≥4 Class 1: colour change≥3-4 colour staining≥3-4 Pass: colour change≥3-4 colour staining≥3	Both versions waive test for products that cannot be dry cleaned per care instruction 2012 version assesses staining on dry clean solution, while 2021 version removes this requirement, while assesses staining on adjacent fibers.
		Colourfastness to perspiration	High: colour change≥3-4 colour staining on wool≥4 colour staining on others≥3-4 Class 1: colour change≥3-4 (printed, dip dyed≥3) colour staining≥3 Class 2: colour change≥3 colour staining≥3	High: colour change≥3-4 colour staining≥3-4 Class 1: colour change≥3-4 colour staining≥3 Pass: colour change≥3 colour staining≥3	2021: deletes special requirement for printed and dip dyed Class 1 product
		Colourfastness to water	High: colour change≥3-4 colour staining on wool≥4 colour staining on others≥3-4 Class 1: colour change≥3-4 colour staining≥3 Class 2: colour change≥3 colour staining≥3	High: colour change≥3-4 colour staining≥3-4 Class 1: colour change≥3-4 colour staining≥3 Pass: colour change≥3 colour staining≥3	/
		Colourfastness to rubbing	High: dry≥4 wet≥3 Class 1: dry≥3-4 (dark colour ≥3; printed, dip dyed≥3) wet≥2-3 Class 2: dry≥3 wet≥2-3	High: dry≥4 wet≥3 Class 1: dry≥3-4 (dark colour≥3) wet≥3 (dark colour≥2-3) Pass: dry≥3 wet≥3 (dark colour≥2-3)	2012: waive test wet rubbing for dryclean only product 2021: delete special requirement for printed and dip dyed Class 1 product, delete exemption for dryclean only product
		Colourfastness to light	High / Class 1 / Class 2: dark colour≥4 light colour≥3	High / Class 1 / Pass: dark colour≥4 light colour≥3	2012: waive test for underwear product; 2021: waive test for underwear and sock products. Test method revised to GB/T 8427-2019, method 3
		Colourfastness to transfer in joint	No such requirement	≥4	2021 newly added item, only test for dark colour and light colour jointed product, waive test for product that is not washable. Test method is GB/T 31127-2014, method A

No.	item		FZ/T 730018-2012	FZ/T 73018-2021	Note
5	Quality Requirement	Anti-bacterial (if claimed)	No such requirement	Suppression rate after 5 washes: Staphylococcus aureus $\geq 70\%$, Escherichia coli $\geq 70\%$ Candida albicans $\geq 60\%$ Other: meets GB/T 31713	2021 newly added item. Test method is GB/T 20944.3
		Prickle free (if claimed)	No such requirement	non sportswear ≤ 510 , sportswear ≤ 320	2021 newly added item. Test method is IWTO-66
6	Instruction of use		Comply with GB 5296.4 & GB 18401	Comply with GB/T 5296.4 & GB 18401, children's product comply with GB/T 5296.4 & GB 31701	/
Note	Dimensional change to washing test method		FZ/T 70009 Hand washable – relaxation change 1X7A Hand washable - felting change 1X7A (underwear, sock 1X5A) Machine washable - relaxation change 1X7A Machine washable - felting change 2X5A (pant, dress, skirt 3X5A; underwear, sock 5X5A)	FZ/T 70009 Hand washable – relaxation change 1X4G Hand washable - felting change 1X4G (shirt, blouse, underwear, sock 1X4N) Machine washable - relaxation change 1X4G Machine washable - felting change 2X4N (pant, dress, skirt, coat, suit, jointed garment 3X4N; shirt, blouse, underwear, sock 5X4N)	Parameter difference is due to FZ/T 70009 edition update, no virtual change

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