

# General Performance Requirements for Textile Fabrics (KAKEN Standards) 2020

revision: 2023/6  
revise: 2020/01

Test Items				End Use				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-3	Additional Notes
								Jackets & Coats	Bottoms	Shirts (woven)	Shirts (knit)	Sweaters	Nightwear	Under-wears	Swimwears	Caps/Hats	Neckties	Mufflers	Handkerchiefs/Towels	Socks & Gloves	Leathers & Furs	Curtains	Sheets & Covers	Floor coverings	Bedding Goods	Linings	Accessories (bags, fabrics)	
Colorfastness (class,min.)	Light	JIS L 0842	Color Change	4(3)	4(3)	3	3	3	3	3	3	3	4(3)	3	3	3	3	4(3)	4(3)	3	3	3	3	3	3	3	( ) : pale colors etc.	
		Washing	JIS L 0844 Method A-1 for Wool/Silk or Acetate, Method A-2 for all others	Color Change	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Applied for washable products Staining should be class 4 or more for products of dark and pale colors assorted
	Staining			3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	( ) : blended more than 50% of wool or silk
	Perspiration	JIS L 0848	Color Change	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Staining should be class 4 or more for products of dark and pale colors assorted
			Staining	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	3(2-3)	( ) : blended more than 50% of wool or silk For leather and fur products, c.f. to water instead.
	Rubbing	JIS L 0849 Type II	Dry	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	3-4(3)	( ) : special print, denim, velveteen, corduroy etc.
			Wet	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)	2(1-2)
	Drycleaning	JIS L 0860 Method A-1 Method B-2	Color Change	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Applied for drycleanable products Staining should be class 4 or more for products of dark and pale colors assorted
			Staining	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Bleeding	DAIMARU Method	Staining	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	Applied for washable products of dark and pale colors assorted
Oxygen bleach	JIS L 0889	Color Change	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Applied for products which domestic washing is allowed	
Change in dimension <%,within>	Washing	JIS L 1930 As per the handling label ★	±3 (±3)	±3 (±3)	±3 [±5]	<+3~-6>	<+3~-6>	±5 (<+3~-6>)	±5(±3) (<+3~-6>)	+3~-6	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	+3~-6 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	( ) : knit wale direction, < > : knit course direction warp knitting is classified woven fabrics [ ] : casual shirts ( ) : lingerie, foundation [ ] : pouch	
			Drycleaning	JIS L 1096 Method J-1 Commercial dry cleaning	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	Applied for drycleanable commodities
	Wetcleaning	JIS L 1931-4	±3 (±3)	±3 (±3)	±3 [±5]	<+3~-6>	<+3~-6>	±5 (<+3~-6>)	±5(±3) (<+3~-6>)		±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)		±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	±3 (<+3~-6>)	( ) : knit wale direction, < > : knit course direction warp knitting is classified woven fabrics [ ] : casual shirts ( ) : lingerie, foundation [ ] : pouch	
Tearing Strength <N,min.>	JIS L 1096 Method D	10 (7)	10 (7)	7	7	7	7	7	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	10 (7)	( ) : thin woven fabrics		
Bursting Strength <kPa,min.>	JIS L 1096 Method A	400 (300)	400 (300)	400 (300)	400 (300)	300 (300)	300 (300)	300 (300)	400 (300)	400 (300)	400 (300)	400 (300)	400 (300)	300 (300)	300 (300)	300 (300)	300 (300)	300 (300)	300 (300)	300 (300)	300 (300)	300 (300)	300 (300)	300 (300)	300 (300)	( ) : thin knit fabrics		
Resistance to Seam Slippage <mm,within>	JIS L 1096 seam slip Method B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Load of 49.0 N is applied for thin fabrics Load of 117.7N is applied for thick fabrics		
Pilling <class,min.>	JIS L 1076 Method A	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	3 (2)	( ) : synthetic fibers, raised fabrics and animal fibers expect wool		
Snag <class,min.>	JIS L 1058 Method A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Applied for woven fabrics and knitted fabrics made of filament yarns		
Pile Retention <class,min., mN,min.>	KAKEN Method, JIS L 1075	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	3-4 (2)	( ) : knitted velour [ ] : products made of towel fabrics		
Fuzz Retention <class,min.>	TAPE Method	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Applied for raised or animal fibers (angora) products		
Certain aromatic amine <ng/kg,max>	Ministerial Ordinance No.34, Ministry of Health & Welfare	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	Applied for items specified in the Ministry of Health and Welfare Ordinance		
Free Formaldehyde content(max.)	Ministerial Ordinance No.34, Ministry of Health & Welfare	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	A-Ao 0.05	[ ] : items listed on Ministry Ordinance of Ministry of Health and Welfare and besides babies/infants use		

※The above Table is an excerpt from KAKEN Standards. Essential test items can be decided on its material,end-use,type of garments,etc.

※This standard might change without a previous notice. Please confirm the latest version in our homepage or nearest our office etc.

★When the handling label is over 140, the test is conducted after talking.