



THE WOOLMARK COMPANY

WOOLMARK SPECIFICATION

COOL WOOL GARMENTS

SPECIFICATION AC-1

Effective 1 January 2016

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SPECIFICATION AC-1: 2016

COOL WOOL GARMENTS

PRODUCTS

Cool Wool may be applied to the following Woolmark and Woolmark Blend logo garments that meet the criteria detailed in this specification:

- sweaters and cardigans
- coats
- jackets
- suits and trousers
- costumes
- skirts
- dresses
- kimonos
- shirts and blouses
- underwear.

Cool Wool cannot be used on socks.

Wool Blend labelling cannot be used on Cool Wool products.

Cool Wool criteria for all products

Products must meet all requirements under Specification AW-1: Woven Apparel Products or AK-1: Knitted Apparel Products as appropriate.

Property	Test method	Requirements
Cool Wool: yarn production system	–	Worsted
Mean wool fibre diameter (μm maximum)	22 or 23 or 24 Blends TM24 only	22.5
Cool Wool: product surface	–	Clear, clean
Fabric weight (g/m^2 : maximum)	13	190
<i>Alternative criteria for knitted products</i> Resultant yarn count (minimum)	ISO 7211-5: 1984	12Nm

- This table must be read in conjunction with the notes that follow.

NOTES

1. **Woolmark Blend.** Specifications for Woolmark Blend products are the same as those for Woolmark, except where indicated.
2. **Blends with other fibres.** Only blends of wool with natural fibres (cellulosic or animal fibres including silk) are permitted for use with the Cool Wool label in conjunction with Woolmark Blend labels.

All requests to use Cool Wool on fabrics that meet these specifications but contain synthetic or man-made fibres (with the exception of elastane-type filaments) must be referred to The Woolmark Management Group for consideration. Such fabrics are unlikely to be approved unless the synthetic fibre blend is judged to be innovative.

Inclusion of elastane-type filament to impart stretch characteristics to the fabric is permitted. The Woolmark logo cannot be used on elastane-containing garments, except in those countries covered by Specification F-4 'Fibre Content of Woolmark Products'.

3. **Mean wool fibre diameter.** All measurement methods have a tolerance, which is included in the criterion of an absolute maximum mean fibre diameter for wool fibres of $22.5\mu\text{m}$. In the case of Woolmark Blend products, Woolmark TM24 'Wool fibre diameter – projection microscope method' **must be used. Do not use** TM22 'Mean fibre diameter of wool in pure wool products using Laserscan' or TM23 'Mean fibre diameter of wool in pure wool products using OFDA100' to evaluate Woolmark Blend products because neither apparatus distinguishes between wool and non-wool fibres.
4. **Fabric surface.** The surface of the fabric shall be smooth and relatively free from protruding fibres.
5. **Fabric weight.** A fabric weight of $190\text{g}/\text{m}^2$ is equivalent to $\sim 285\text{g}/\text{linear metre}$ based on a fabric width of 1.5m. This limit represents the required maximum of $187\text{g}/\text{m}^2$ ($\sim 280\text{g}/\text{linear metre}$) with a $3\text{g}/\text{m}^2$ allowance for testing error.
6. **Sampling.** The sample for testing must include at least a full pattern repeat.

Alternative mandatory criteria for fully-fashioned knitwear to be used only if fabric weight exceeds 190g/m².

- **Knitted apparel products.** A composite specimen, including all yarn types, must be evaluated in the proportion in which they appear in the fabric.
- **Yarn count.** Cool Wool knitted products must be knitted using yarn with a resultant count of Nm12, (e.g. 24/2, 36/3 or finer). Resultant count is defined as the overall count of the yarn in the knitted loop. It is the resultant value of all single yarns present in the loop, whether these are twisted together or fed to the knitting elements in parallel.

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