



THE WOOLMARK COMPANY

WOOLMARK SPECIFICATION

WOOLMARK APPAREL CARE GREEN

WASHING MACHINE CYCLE
FOR HAND-WASHABLE
WOOL PRODUCTS

SPECIFICATION LM-3

Effective 1 January 2016

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SPECIFICATION LM-3: 2016

WASHING MACHINE CYCLE FOR HAND WASH WOOL PRODUCTS

Woolmark Apparel Care Green

MANDATORY REQUIREMENT

Property	Test method	Pass level
Felting severity (SM12 and WSK1)	295	Cycle Felting Severity Index (CFSI) ≤ 0.2
Cleansing efficiency	307	Cleansing efficiency for all cycle temperatures
		> report only for carbon black
		$\geq 80\%$ blood
		$\geq 60\%$ chocolate
Wash cycle temperature Machines with a programmed fixed temperature for the Woolmark cycle	—	$\geq 80\%$ wine
		Water temperature $< 42^{\circ}\text{C}$ Maximum = programmed value $+2^{\circ}\text{C}$ Minimum = programmed value -5°C
Environmental considerations	IEC60456	Energy consumption $\leq 0.23\text{Kwh/kg}$ Total water use $\leq 20\text{L} + 20\text{L/Kg}$ Rinsing efficiency $\leq 0.25 \text{ meq(alk)/kg}$ Spin wool cycle speed $\geq 800\text{rpm}$

NOTES

1. Approved machines must have a fixed programmed temperature of 30–40°C for the Woolmark labelled cycle, and the cycle felting severity and cleansing efficiency must be determined at the recommended or required temperature. Machines with no heating or without a recommended program temperature will not be approved for Woolmark Apparel Care -Green.
2. The machine must have a spin on the final element of the cycle. It is advised that the final spin speed be as high as possible to remove the maximum amount of water. A high final spin speed will not have a negative effect on cycle felting severity.
3. The specification applies only to 'automatic' washing machines. Automatic machines are defined as those which only require the user to choose the appropriate approved cycle (program). 'Semi-automatic' washing machines that require additional manual processes by the user, such as draining, adding new water to rinse or move the load for the final spin, cannot be approved. Twin tub machines are considered 'semi-automatic'.

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