

Draft Product Specifications + lot 021 certificate and data	2010-04-08 2014-01-30
Product: Art. Nr. 99117 / 99118, DOE Energy Test Cloth	

Parameter	Targets / Tolerances	lot 021
Yarn composition	Cotton/Polyester 50/50 CO in warp and weft each 50% ± 4%	Cotton 54% Polyester 46%
Width	160 cm	-
Mass per unit area (weight)	(190 ± 8,4) g/m ²	186,8 g/m ²
Weave	Momie or Granite weave	OK ✓
Thread count Warp Weft	65 / inch (25,5 / cm) ± 2% 57 / inch (22,4 / cm) ± 2%	25 / cm (≈ 63 / inch) 23 / cm (≈ 58 / inch)
Yarn count Warp Weft	15/1 cotton count ≈ Nm 25 (39 tex) ± 5% 15/1 cotton count ≈ Nm 25 (39 tex) ± 5%	Nm 24 Nm 24
Linear density of the yarn in finished fabric Warp Weft	<i>wfk</i> : 35,5 tex ± 5% <i>wfk</i> : 35,5 tex ± 5%	34,6 tex 34,1 tex
Yarn twist Warp Weft	Not specified	406 t/m (in finished fabric) 369 t/m (in finished fabric)
Yarn construction	Open end spun	OK ✓
Finish	Pure finish: desized/washed, bleached, without optical brightener AATCC-118 Oil Repellency Test: D scores only AATCC-79 Absorbency Test: Wetting time ≤ 1 sec.	OK ✓ OK ✓ OK (< 0,5 sec.) ✓
Color	White	OK ✓
Tristimulus Y	<i>Tbd</i>	

Remarks:

The above specifications were drafted for review by AHAM DOE Test Cloth Task Force. They consist of the specifications currently laid out in the Federal Register plus additional requirements set up by wfk. The original yarn count requirement (15/1 cotton count) was translated into a Nm/tex based yarn count requirement. The measured yarn count in the finished fabric is affected by the finishing process and specified internally by wfk as well.

Final Specs to be published in U.S. Federal Register.

Lot 021 fabric approved: *T. Hilgus*
17. December 2013

Lot 021 evaluation by
AHAM DOE Task Force: Approved as LOT 21! **APPROVED**
30. January 2014