
	Characteristic	Disposable	Non-Healthcare Microfiber	Healthcare Grade Ultramicrofiber (HGUM©) 	Study Notes:
	Fiber Size in denier– (Smaller is better)	0.52d to 4.80d	≥0.3d to ≤1.0d	<0.3d	Optimal performance @ 0.13d , 20inch mop, 12x12 towel
	Fiber Composition	Mostly cellulosic or Synthetic, combination	Synthetic or combination various	Polyester (PET) ≥ 85% Polyamide (Nylon) ≤15%	80-85% PET maximum 15-20% Nylon maximum
	Bi-Component Split	No	Possible, fiber content dependent	Yes, bi-component	Optimal outcome Min. 16x split
	Split Percentage	Not possible	Dependent upon fiber content	≥92%	Optimal performance attained at ≥92% split
	Microbe Removal	2-3 log (99.0-99.9%)*	2-3 log (99.0-99.9%)	5-log (99.999%) HGUM w/H2O 7-log (99.99999%) HGUM w/QAC	Optimal outcome w/ HGUM©
	Biofilm Removal	Minimal to none	Minimal to none	Yes, as part of proper process	Only HGUM©
	EPA Disinfectant Compatible - Best Absorption & Elution	QUAT binding on cellulosic material	No bleach	Yes, bleach and all EPA registered disinfectants	Only HGUM©
	CDC Compatible Temp, Time, Bleach	N/A	No	YES, 160°F / 25 minutes 125-150ppm bleach / 120-125 cycles w/o loss of efficacy	Only HGUM©
	Manufactured Type	Hydroentangled Spun lace	Knitted	Warp Knit	Warp Knit has better removal, disinfectant compatibility
	Exertion / Drag	Difficult	High exertion and drag	Minimal exertion / low drag	85/15 blend optimal
	Dry Weight per item	2 gm-15 gm Wipe 18 gm-23 gm Mop	19-25 gm Wiper 56-75 gm Mop	26-33 gm Wiper 80-94 gm Mop	26-33 gm Towel 80-94 gm Mop
	Consumption: Coverage / Distance:	High ≥10-≤70 sf Wipe ≥90-≤150 sf Mop	Medium ≥30-≤90 sf Wiper ≤250 sf Mop	Low ≥120 sf Wiper ≥400 sf Mop	HGUM© Lowest consumption Greatest coverage*
	Costs / Financials Cost to process 296 sf Patient Room	\$2.77 - \$3.74	\$1.27 - \$1.80	\$0.84 - \$1.09	HGUM© is 1 to 1,800 Disposable <small>(wipes = 15:1 ratio x 120 lifecycle) (mops = 3:1 ratio x 120 lifecycle)</small>
	Environmental Impact	High	Medium	Low	HGUM© is 1 to 1,800 Disposable wipes HGUM© is 1 to 360 Disposable mop

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