

HEMP CPH // TEXTILES

ORGANIC, SUSTAINABLE, ANTIBACTERIAL BY NATURE



SUSTAINABILITY -FACTOR: *	Rayon of*** BAMBOO	COTTON	Organic COTTON	(Flax) LINEN	True HEMP
CHEMICALS (farming)	NO	YES	NO	SOME	NO
CHEMICALS (production)	YES	YES	NO	YES	NO
IRRIGATED WATER (liter/kg fibre)	ZERO	5000 L	3-5000 L	SOME	ZERO
LAND USAGE (1 kg fibre)	0,5 M2	3,4 M2	3,4 M2	2,0 M2	1,1 M2
CO2 - ABSORB. (tonnes/ha)	40*	5	5	10	22-44
STRENGTH & DURABILITY	1 X*	1 X	1 X	2 X	3 X**
ANTIBACTERIAL (odour-inhibition etc.)	SOME	NO	NO	SOME	MAX****
ABSORBENCY (moisture)	1 X	1 X	1 X	1 X	+ 30%

See all sources and notes on page 2

Sources: EU, UN, UNESCO and others. Figures are global averages. E.g., cotton requires an average of 10.000 liter water per kg fibre grown. Global average rainfall is 5000 liter/kg cotton (or per 3,4 m2), leaving a need for irrigation of 5000 liter water/kg cotton. Hemp requires 2000 liter/kg, leaving zero need for irrigation, on average.

NATURAL TEXTILES: SUSTAINABILITY AND PERSONAL BENEFITS

SUSTAINABILITY -FACTOR: ¹⁾	Rayon of BAMBOO ³⁾	COTTON	Organic COTTON	(Flax) LINEN	True HEMP
CHEMICALS (farming)	NO	YES	NO	SOME	NO
CHEMICALS (production)	YES	YES	NO	YES	NO
IRRIGATED WATER ⁵⁾ (liter/kg fibre)	ZERO	5000 L	3-5000 L	SOME	ZERO
LAND USAGE (1 kg fibre)	0,5 M2	3,4 M2	3,4 M2	2,0 M2	1,1 M2
CO2 - ABSORB. (tonnes/ha)	40 ¹⁾	5	5	10	22-44
STRENGTH & DURABILITY	1 X ³⁾	1 X	1 X	2 X	3 X ²⁾
ANTIBACTERIAL (odour-inhibition etc.)	SOME	NO	NO	SOME	MAX ⁴⁾
ABSORBENCY (moisture-wicking)	1 X	1 X	1 X	1 X	+ 30%
Links/Documentation	How cotton is made	How linen is made	How hemp textile is made	Hemp Science	Hemp Antibacterial Test

1) Estimates. All other figures and assessments are from UN, EU, UNESCO statistics & science papers, and calculations thereof.

2) Tests by Via University & DTU in Denmark show after 70 washes hemp fabric shows no significant signs of weakening.

3) Bamboo is not a natural textile. It is Rayon, i.e. made with chemicals out of fibre-based pulp.. Often wears faster than cotton.

4) All cellulosic ("woody") fibres such as bamboo, flax and hemp are somewhat antibacterial. Tests with hemp have shown up to 97% destruction of E Coli, Staffs and Candida within 4 hours. This extra anti-microbial quality is assigned to CBD and THC in Hemp. 1)

5) Irrigated water: Irrigation: Cotton requires an average of 10.000 liter water per kg fibre grown. Global average rainfall is 5000 liter/kg cotton (or per 3,4 m2), leaving a need for irrigation of 5000 liter water/kg cotton. Hemp requires 2000 liter/kg, leaving zero need for irrigation, on average.