

# 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%

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. See page 2 for links and further documentation

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## LINKS | DOCUMENTATION ON ENVIRONMENTAL & PERSONAL BENEFITS



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1) Estimates. All other figures and assesments are from UN, EU, UNESCO statistics and calculations thereof.

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

3) Bamboo is not a natural textile. In e.g. USA it is only allowed to call it "Rayon of Bamboo", made of chemically produced pulp, extruded to threads for fabric. Often wears down, faster than other materials.

4. All cellulosic ("woody") fibres such as bamboo, linen/ flax, wooden boards and hemp are somewhat anti bacterial. However, tests with hemp fibres have shown up to 97% destruction of E Coli, Staffs and Candida

within 4 hous. The extra anti-microbial property of hemp is assigned to the natural CBD- and THC-content in hemp fibres. (Check link for test results at the bottom).

5. Irrigated water: Cotton requires an average of 10.000 liter water per kg fibre grown. Global average rainfall is 5000 Liter per kg cotton (or per 3 M2), leaving a need for irrigation of 5000 liter water/kg cotton. Hequires 2000 L water/kg, leaving zero need for irrigation, on average.

Links:

- How cotton fabric is made
- How bamboo fabric is made
- How linen fabric is made
- How hemp fabric is made
- Hemp Science | Antibacterial test-results.