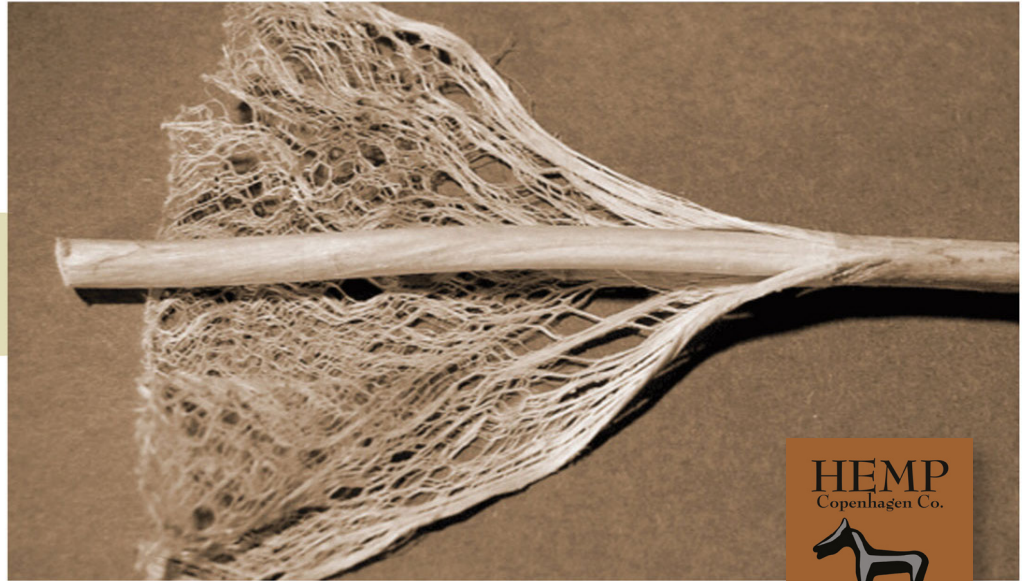


HEMP CPH // TEXTILES

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.

TEXTILES COMPARISON: SUSTAINABILITY AND OTHER FACTORS

| 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% |
| <p>* Estimate. All other figures and assessments are from official sources, including UN, EU, UNESCO statistics and calculations thereof.</p> <p>** Tests by Via University, DTU Denmark show after 70 washes hemp fabric shows no significant signs of weakening.</p> <p>*** Bamboo is not a natural textile. It is "Rayon", made of fibre-based pulp, involving chemicals. Often wears faster than cotton.</p> <p>**** 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)</p> | | | | | |
| | | Cotton production: http://www.madehow.com/Volume-6/Cotton.html | | Linen production http://www.madehow.com/Volume-4/Linen.html | Hemp Production: http://www.madehow.com/Volume-6/Industrial-Hemp.html 1) Antibacterial test https://hemp-copenhagen.com/shop/cms-hemp-science.html |
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