C1.2 Regenerated cellulose fibres

The company applying for license for Good Environmental Choice (Bra Miljöval) shall before Part C1.2 is sent to the production unit(s) for pulp production and fibre spinning, enter their own company name and the name of the product/product group the material(s) is related to.

Name of the company applying for license
Name of product/product group concerned by the below information

Part C1.2 is filled in by the production unit(s) for pulp production and fibre spinning. The Licensee shall attach requested certificates and other documentation.

By request of the Swedish Society for Nature Conservation the production unit must be prepared to provide documentation that verifies the information stated in Part C.1.2.

Fibres contained in the licensed product/product group must satisfy the requirements specified in the criteria for Good Environmental Choice - Textiles 2012. This text is a translation. The Swedish version always prevails.

References are to sections of the Criterion document.

Company name of production unit

C1.2.1 Pulp production (Section 3.2)

The pulp contains

_____ % FSC-certified forest raw material. State type: _____

_____ % FSC Recycled State type: _____

_____ % FSC Mixed sources State type: _____

_____ % PEFC- certified forest raw material. State type: _____

☐ ***Documentation*** verifying the above *is attached*.

☐ Waste materials/process waste is used for pulp production

State type: _____

☐ ***Documentation*** verifying the above *is attached*.

☐ The pulp has been bleached using a chlorine-free method. State method: _____ ☐ ***Documentation*** verifying the above *is attached*.
☐ Emissions of sulphur dioxide do not exceed 0.7 g/kg pulp and year. State value: _____
☐ Emissions of nitrogen oxides do not exceed 2 g/kg pulp and year. State value: _____

C1.2.2 Fibre spinning (Section 3.2)

Specify type of regenerated fibre _____

Spinning process

☐ Spinning was in an **N-methyl morpholine N-oxide-based viscose process** in a closed system.
☐ Solvent is recovered by at least 99 %. State value: _____
☐ The above is verified by *attached* ***analysis report*** from accredited laboratory.
☐ Spinning was in a **xanthogenate-based viscose process** in a non-closed system. **Class II**
☐ Sodium sulphate is recovered by at least 80 %. State value: _____ ☐ Potassium sulphate is recovered by at least 80 %. State value: _____ ☐ Hydrogen sulphide is recovered by at least 80 %. State value: _____
☐ Emissions of sulphur dioxide do not exceed 25 g/kg fiber and year. State value: _____
☐ The above is verified by *attached* ***analysis report*** from accredited laboratory.
☐ Spinning of viscose fibre was with a solvent other than the above. ***Documentation*** *is attached* State type of solvent: _____

C1.2.3 Bio-polishing (Section 3.2)

Specify type of regenerated fibre _____
☐ Fibres/filaments have been enzymatically bio-polished. ☐ Enzymes are free from traces of microorganisms used in their production.

C1.2.4 Treatment of waste water from pulp production and fibre spinning (Section 3.2)

Pulp production

State how many litres of waste water are formed, on average, per kg of pulp processed. _____l/kg
☐ Waste water is treated on site ☐ Waste water is treated in an external plant.
☐ Treatment of waste water is done mechanical, chemical and biological. ☐ Treatment of waste water involves additional purification step(s), state which step(s): _____
☐ COD in treated waste water does not exceed 40 g/kg fibre and year. State value: _____
☐ pH of waste water is between 6 and 9. State pH: _____
☐ Temperature of waste water is no higher than 40ºC. State temperature: _____ ☐ Temperature of waste water is higher than 40ºC ☐ Recipient's natural temperature exceeds 40˚ C.
☐ Phosphorus content in treated waste water from pulp production does not, on average, exceed 50 g/ton pulp and year. State value: _____
☐ ***Analysis report*** on treated waste water from accredited laboratory *is attached*. State how many m^3 of waste water were generated in the production unit in the year prior to the production of the analysis report. _____

Fibre spinning

State how many litres of waste water are formed, on average, per kg of fibre processed: _____l/kg
☐ Waste water is treated *on site*. ☐ Waste water is treated in an external plant.
☐ Treatment of waste water is done mechanical, chemical and biological. ☐ Treatment of waste water involves additional purification step(s). State which step(s): _____
☐ COD in waste water treated *on site* is < 20 g/kg fibre and year. State value: _____ ☐ COD in waste water treated externally has been reduced by at least 90 %. COD content prior to treatment: _____ COD content after treatment: _____
☐ pH of waste water is between 6 and 9. State pH: _____
☐ Temperature of waste water does not exceed 40°C. State temperature: _____ ☐ Temperature of waste water exceeds 40°C. ☐ Recipient's natural temperature exceeds 40˚ C.
☐ Phosphorus content of treated waste water does not exceed 0.5 g/kg fibre and year (for OECD-countries). State value: _____ ☐ Waste water treatment plant receives waste water from several sources. Phosphorus content has been reduced by at least 90% in the treated waste water. Phosphorus content prior to treatment: _____ Phosphorus content after treatment: _____ ☐ Phosphorus content of treated waste water exceeds 0.5 g/kg fibre and year. ☐ Redfield-quota (quota of nitrogen:phosphorus) in the recipient is less than 16.
☐ Emissions of zinc do not exceed 0.2 g/kg fibre filament or staple fibre and year. State value: _____
☐ Copper content of treated waste water does not exeed 0.5 mg/l and year. State value: _____
☐ Sludge from waste water treatment plant is digested.
☐ ***Analysis report*** on waste water after treatment, from accredited laboratory, *is attached*.

State how many m^3 of waste water were generated in the production unit in the year prior to the production of the analysis report. _____

C1.2.5 Improvement work (Section 7.3)

☐ Production unit works to reduce consumption of water and energy per kg of textile, and minimising waste as well as discharges of waste water. *Written **information** is attached.*

Responsible persons at production unit and person responsible for treatment of waste water below verify that the information in part C1.2 is valid for the given product/product group.

Date and signature of responsible person at the production unit for pulp production
Name (print):
Position
Telephone number
E-mail address

Date and signature of responsible person at the production unit for fibre spinning
Name (print):
Position
Telephone number
E-mail address

Date and signature of person responsible for waste water treatment at the production unit or external waste water treatment plant
Name (print):
Position
Telephone number
E-mail address
Name of external company responsible for waste water treatment

The completed form with signature can be scanned and sent

by e-mail to:
textil@naturskyddsforeningen.se

Or by post to:
Swedish Society for Nature Conservation
Good Environmental Choice Textiles
Första Långgatan 28B
SE-413 27 Gothenburg
Sweden

NOTE: This text is a translation. The Swedish version always prevails.