

LIST OF ABBREVIATIONS USED IN THE TEMPLATE

Explanations of the abbreviations:

The diverse classifications of the previous mentioned factors are listed in abbreviations. For example, the abbreviation CO (100%) means that the textile substrate is 100% made out of cotton.

Moreover, an additional category for finished textiles is listed as the type of finished products provides helpful suggestions and should be recorded, too.

Explanation of the abbreviations:

CO (100%) – Textile substrate which is 100% made out of cotton.

PES = polyester

PAN = polyacrylnitrile

PUR = Polyurethane (=Lycra)

PA = polyamide

CV = viscose

SI = silk

LN = linen

WO = wool

For the processequenz the following abbreviations are used:

H₂O₂ = hydrogen peroxide

NaClO = sodium hypochlorite

ZDHC MRSL = Manufacturing Restricted Substances List (MRSL) of the initiative Zero Discharge of Hazardous Chemicals (ZDHC). Hazardous substrates with a lack of

substitutions are listed in the „ZDHC Research List“. *Pointed Lines are optional to add additional processes.*

Used abbreviations for Wastewater:

DD = Direct Discharger (a factory discharges its wastewater after wastewater treatment into the public water)

ID = Indirect discharger (a factory discharges its wastewater into a regional or central wastewater industry which then discharges the wastewater into the public water)

WWTP = wastewater treatment plant

O₃ = ozone (normally for bleaching)

NaClO = sodium hypochlorite (normally used for bleaching which is not recommended because of toxic side products)

UF = Wastewater Cooling Membrane (a membrane process)

RO = reverse osmosis (activat. sludge membrane)

COD = Chemical Oxygen Demand (Accumulated parameters, especially for the wastewater pollution with organic substrates)

BOD₅ = Biochemical Oxygen Demand (Demand of Oxygen for bio-degradable, organic substrates)

Total N = total amount of nitrogen (sum of all mineral and organic nitrogen compounds)

Total P = total amount of phosphor (sum of all mineral and organic phosphor compounds)

Total Cr = total amount of chrome

Total Cu = total amount of cupper

TSS = Total suspended solids

The sludge generation in the WWTP includes the precipitated sludge (if a precipitation stage exist) and the sludge (biomass) which is generated by the biological wastewater treatment. This is primarily biomass with attached non biodegradable, less water soluble substrates. The dry matter content includes the residue of sludge after completed dehydration (identified by laboratory).