



CH
BIOFORCE®

The Bioforce of Nature

**JOIN THE
BIOFORSENSE®
REVOLUTION**

THE BEST BIOMASS FRACTIONATION TECHNOLOGY IN THE WORLD



BIOFORSENSE®

OUR HIGH-QUALITY BIOPOLYMERS

CELLENSE™

Dissolving cellulose is manufactured for applications that require a high chemical purity and a particularly low hemicellulose content, such as viscose and microcrystalline cellulose (MCC) production. CELLENSE is also suitable for staple fibre production.



CELLENSE

XYLENSE®

Polymeric hemicellulose can be used in the production of various daily products, such as takeaway coffee cups, cosmetics and food. In cosmetics hemicellulose works as an emulsifier giving lotions a smooth, easily applicable consistency while moisturising the skin.



XYLENSE

LIGNENSE®

Lignin can be used in a myriad of applications as an emulsifier, UV blocker, anti-microbial agent, dispersant, binder, adhesive and additive in industries as diverse as cosmetics, construction, agriculture, water treatment, oil drilling and ore processing.



LIGNENSE



MATERIAL FLOW



1

Agricultural and industrial biomass side streams from waste to value

2

Biomass, such as oat husk or wood chips, collected and sent to producer

3

Producer turns the biomass into hemicellulose, lignin, or cellulose using BIOFORSENSE® technology

4

Hemicellulose, lignin and cellulose sold to consumer product manufacturer

5

Material is used in producing consumer products, replacing oil- and food-based raw materials



JOIN THE BIOFORSENSE® REVOLUTION

High-quality materials produced by BIOFORSENSE technology can replace fossil- and food-based raw materials in an ecologically and economically profitable way.

Lignocellulosic biomass is one of the richest sources of biopolymers on earth. Of the main constituents of wood – cellulose, hemicellulose and lignin – only cellulose, or pulp, tends to be utilised today, with the rest of the biomass generally being disposed of as waste. CH-Bioforce is here to change this.

A COMPLETELY NEW WAY OF PROCESSING BIOMASS

With the revolutionary BIOFORSENSE technology, almost any kind of biomass can be utilised as raw material – e.g. wood, straw or oat husk. The core of our innovation is pressurised hot water extraction (PHWE), meaning the process is practically chemical-free.

BIOFORSENSE technology is flexible in size, enabling a profitable investment – even with a smaller production capacity.



CONTACT US

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