

InnoTech Alberta is a research and innovation organization, with a range of technologies available for licensing. Our focus is on the growth and development of technology-based sectors and the commercialization of technology in Alberta. We provide business and technical services, and initiatives that encourage a strong science, technology and entrepreneurial culture in Alberta.

LICENSING OPPORTUNITY

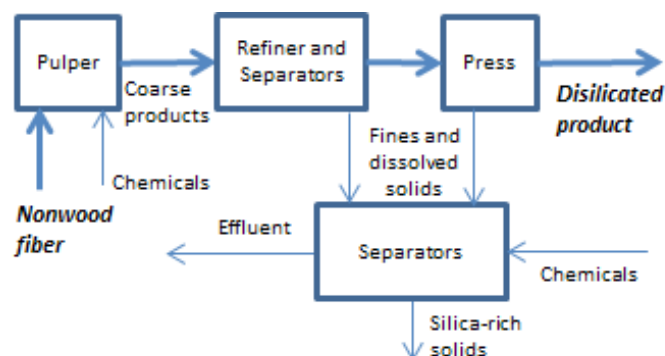
Desilication Process for Non-Wood Fibers

LEVERAGE OUR TECHNOLOGY

InnoTech Alberta has a variety of technologies available for licensing. We will work with companies, from small to large, to set up mutually beneficial licensing deals. With more than 90 years in applied research and development, we are an experienced commercialization partner. InnoTech's licensing opportunities are the result of our world-renowned research programs. Contact us to explore these opportunities.

TECHNOLOGY OVERVIEW

A novel process to remove silica from nonwood plant materials. It involves both mechanical and chemical treatments. Major steps are: (a) wet pre-pulping the nonwood fibers, (b) removing solids from the fibrous portion, (c) adding chemicals to the filtrate to force the precipitation, and (d) removing the silica

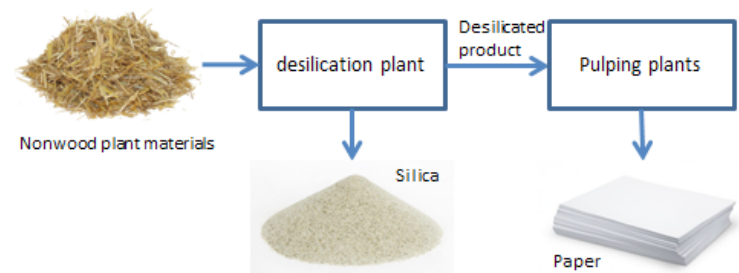


Process flow diagram for pulping of nonwood fibers

and other solids from the filtrate. The final product of this process is suitable to use in pulp processes.

ADVANTAGES

- » Efficient operation: This process solves the main problem associated with the chemical pulping of straw i.e the high levels of silica found in most agricultural fibres compared to wood. Silica causes scaling and fouling in operating units of pulping plants.
- » Profitable: As future wood fibre shortages are predicted, agricultural fibres are believed to be a sustainable fibre source to potentially supplement the use of wood fibres in paper applications due to its cost-effectiveness and abundance.
- » Good for Alberta: There is a tremendous source of straw fibre available in the province of Alberta and surplus straw that is available for commercial development.



Nonwood fibers can be pre-processed and then used for pulping

Desilication Process for Non-Wood Fibers

COMMERCIAL APPLICATIONS

Control of pest insects on ornamental and food crops for:

- » Pulp and paper industry

STATUS

Issued patents in various jurisdictions, including US patent:

- » US 7364640

This technology is available for licensing.

WANT TO EXPLORE THIS OPPORTUNITY?

Licensing@albertainnovates.ca

Our province is blessed with abundant natural resources, world-class infrastructure and research institutions, a highly skilled workforce, and a dynamic, entrepreneurial business community. Alberta Innovates harnesses these strengths by acting as the catalyst between government, industry and academia, to solve some of the biggest challenges facing our province.

TECHNICAL SERVICES

Helping organizations develop their technologies faster and smarter through a subsidiary, InnoTech Alberta.

- » 100,000 m2 of product/process development and scale-up facilities in the areas of petroleum, environment and carbon management, bio and industrial technologies
- » 300 hectare research farm, three greenhouses, and 36 growth chambers

FUNDING PROGRAMS

- » Fostering an entrepreneurial culture and increasing Alberta's critical mass of innovation talent
- » Post-secondary investment programs offer a broad range of support to researchers at all stages of their careers, from graduate students to the world's top researchers

- » Industry investment programs offer support to Alberta-based SMEs in a variety of ways to help accelerate their growth and success

REGIONALLY ACCESSIBLE COMMERCIALIZATION SUPPORT

- » Making connections and pointing businesses and entrepreneurs in the right direction
- » Alberta Regional Innovation Network System - an integrated province-wide system ensuring SMEs and innovators have access to vital services and resources to help them succeed

LICENSING SERVICES

- » Managing the translation of Alberta Innovates intellectual property into business solutions
- » Facilitating licensing deals with industry anywhere in the world