





#### Fibrex® in Short

**An Introduction** 

Version: 2010-12-03 Language: English



## What is Fibrex?

#### The sugar beet consists of:

~5% cell wall material

~18% sugar

~77% water







## **Production of Fibrex**

Beet pulp is steam-dried at high temperature and pressure

Milled, sieved or flaked

No processing aids used during production



#### **Fibrex grades**



- Fibrex<sup>®</sup> 575 < **0.032mm**
- Fibrex<sup>®</sup> 595 **< 0.125mm**
- Fibrex<sup>®</sup> 600 **< 0.5mm**
- Fibrex<sup>®</sup> 608 < **2.0mm**
- Fibrex<sup>®</sup> 610 **0.4-1.4mm**
- Fibrex<sup>®</sup> 615 **1.2-2.0mm**
- Fibrex<sup>®</sup> 620 coarse, not mill
- Fibrex<sup>®</sup> 630 flakes



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# Nutritional composition,



average



\*According to AOAC





## Cell structure of the sugar-beet fibre



Magnified 300 times





## Particles versus cell structure







## Hydration capacity of Fibrex

Water uptake capacity: 7 times

Water holding capacity\*: 3.5 times, (thermostable)





\*Water retained at a pressure of 10 k Pa



## **Fibrex and quality**

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#### **Main Application Areas**



Bakery



Health



Processed eat



Other like snacks, soups, vegetarian





## **Key words - bakery applications**

Thermostable water holding capacity

**Prolonged freshholding** 

Increased dough yield

Better dough process ability

Naturally gluten-free







#### **Key words - meat applications**

Positive effects on appearance, colour and texture.

Unique water-holding capacity. Excellent resistence to machine processing.

Reduction of frying/cooking loss.

Reduction of costs.

Natural product.

Allergen-free.





# **Key words - health applications**

**Bulking effect** 

Normalizing transit time

Normalized blood-glucose levels after meal

Satiety

Lower LDL-cholesterol

**Bioavailability of minerals** 









#### Key words – other application areas

As a flavour carrier in tea, tobacco and spice mixes

As reinforcement and fibre boost in extrusion for snacks or cereals

For a fibre boost in müsli and granola bars

To give texture and to manage water in different fillings





