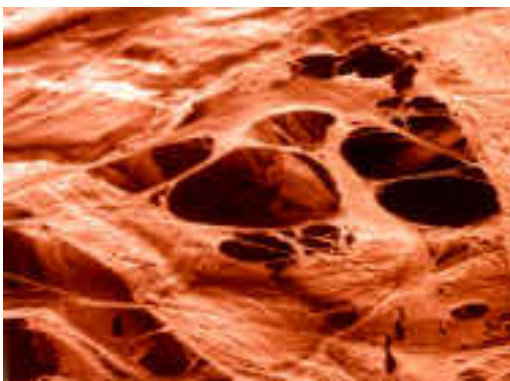


## *Special "predispersed" filter media for solid-liquid separation in precoat filtration*

It's exclusively made of a very pure vegetable fibre, thanks to a particular technology set up in DAL CIN SPA laboratories, that is a complete re-elaboration of the intermolecular structure of the polyglucosidic chains which cellulose molecules are composed of.

In order to avoid a rapid inactivation of the fibre, which would make worse the chemical-physical adsorption, the product FITOFLOC™ is set up only through physical techniques, separating every single fibre.



**FITOFLOC™ DC**  
Microfibrils (SEM 4.000x)

So, these fibres come to a typical, extended "skeen-like" structure instead of the close "wire-rope-like" one.

This modification (extremely hard to realize) makes the specific surface of cellulose itself wider, increasing therefore its capacity of retention.

Any kind of treatment with chemical products is therefore avoided, so that the structural integrity of the fibre is assured; there is no risk of partial and dangerous "digestion" of fibre or break of the glucosidic chains.

The first result reached in the FITOFLOC™ fibre, is the increase of the active adsorption surface:

	<b>FITOFLOC™ DC</b>	<b>cellulose powder</b>
<i>Specific surface (m<sup>2</sup>/g)</i>	15-25	0,5-5
<i>Swelling in water (1%)</i>	30 times	2-5 times
<i>Liquid absorption</i>	very high	medium



**FITOFLOC™ DC**

## **FILTERING PROPERTIES**

Thanks to its fibrous structure, FITOFLOC™ is particularly suitable also in retention of very small particles.

FITOFLOC™ consolidated applications are various and the most important are the followings:

SECTOR	TREATMENT
PETROCHEMICAL PLANTS	brine (chlorine/caustic plant)
SOLVENTS	dimetilformamide DMF recovery synthetic leather processing
PHARMACEUTICS	antibiotic filtration
WATER	residual solids polishing
	cooling water
	sea water
	condensate
POWERPLANTS	cooling water
BEVERAGES	sugar syrup filtration

For its special constitution, FITOFLOC™ keeps an excellent permeability even in liquid rich in suspended solids.

### **FITOFLOC™ DC - ADVANTAGES**

*Total absence of dust in product manipulation.*

*Absence of heavy metals.*

*Immunity in presence of free chlorine.*

*Very high retention of suspended solids.*

*High covering power.*

*Lack of fall or flaking of the filtering surface.*

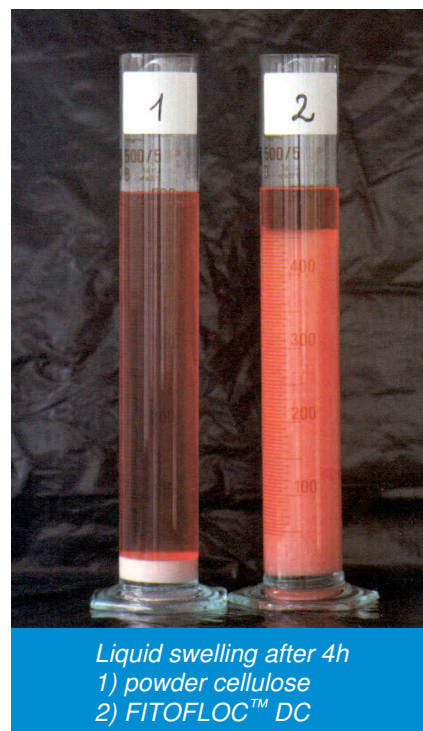
*Protection of the filtering plates, pumps and mechanical members from abrasion.*

*Lower quantity of exhaust disposable material.*

The particle-size distribution of FITOFLOC™ allows a quick and homogeneous precoating and it's easily to dose in body feed.

The products created by DAL CIN SPA allow to work at different level of filtration, from roughing to sterilization:

- **FITOFLOC™ AG/20** (high porosity)
- **FITOFLOC™ AG/60** (medium porosity)
- **FITOFLOC™ AG/60 C** (medium porosity suited for cartridges filtration plants)
- **FITOFLOC™ DC** (low porosity)
- **FITOFLOC™ Super** (very low porosity)



### **DOSAGE**

Doses can range from a minimum of 0,5kg/m<sup>2</sup> to 2kg/m<sup>2</sup> of filtering surface; 1 kg/m<sup>2</sup> is usually enough to obtain good results.

### **PACKAGING**

20 kg polythene bag.

Pallet: 1.200 kg; 1,70m<sup>3</sup>; h 1,40m.

### **SAFETY**

For its unique characteristic, FITOFLOC™ is "predispersed" (partially wet), it is possible to use the product even in plants which haven't a proper anti-deflagration device.



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