

Polymers
for the
cosmetics
industry

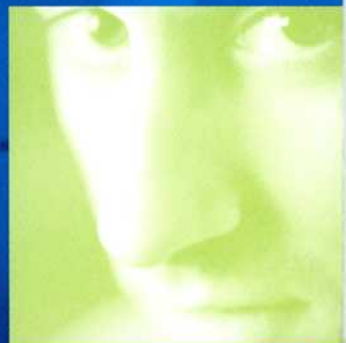
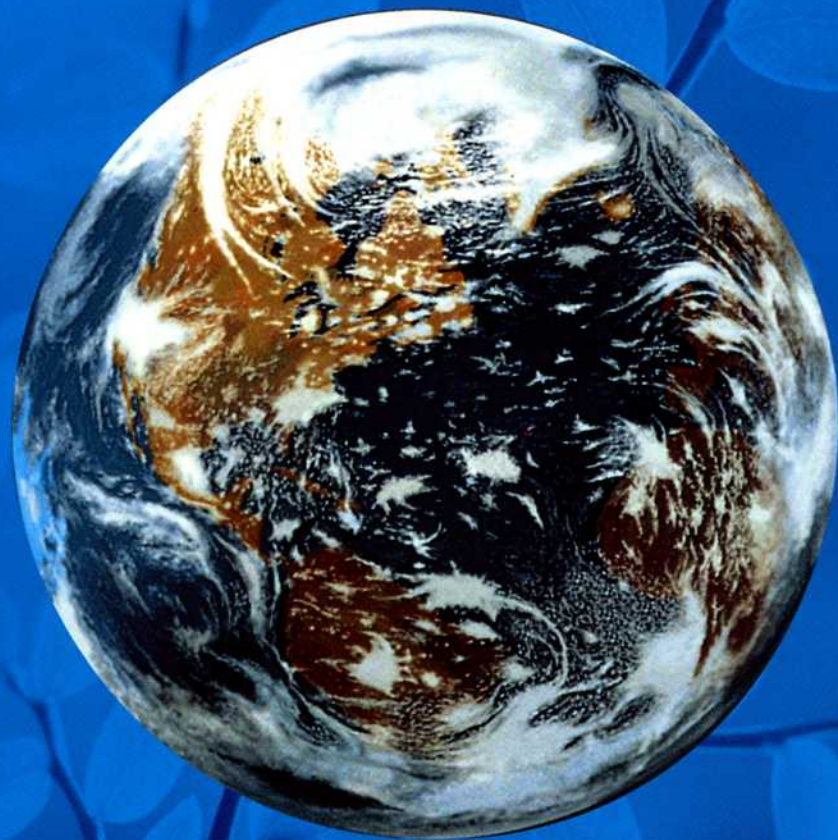


SNF FLOCARE™

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Created in 1978, SNF SA, is today's leading producer of water treatment polymers, supplying more than 30% of the world demand.

The 2000 turnover has reached 3.6 billion FRF (550 million EUR), with 92% of those sales generated outside France. SNF thus demonstrates a clear long-term strategy focused on international development and built on a solid industrial base.



A very dynamic policy of research and development on new products, new polymerization techniques, and new manufacturing processes enables SNF to satisfy, and even anticipate, the various customers needs for performance products. For each division, the R&D department is one of the key players in the development of the company, it is at the interface between application and production and its input is highly valued.

SNF has also invested a lot of time and money in research and development as well as in engineering and production of its monomers. The results of this back-integration policy have been spectacular and SNF can now guarantee both availability and quality of its finished polymers at very competitive prices.

Based on its strong know-how in the field of polymerization, SNF has developed its range of activities and products into different markets like hygiene, textiles, agriculture and cosmetics.



The Cosmetic Division

The cosmetic division is a recent development of SNF. It now can offer the cosmetics industry a range of specially designed polymers under the brand name of FLOCARE™.

The FLOCARE™ range of polymers benefits from the integration in monomers of SNF. The cosmetic division has a strong input on the development of the highest purity monomers and on the engineering of special polymerization techniques specifically designed for the manufacturing of cosmetic grade polymers.

Once produced, these polymers are submitted to rigorous quality control tests by SNF's analytical laboratory.

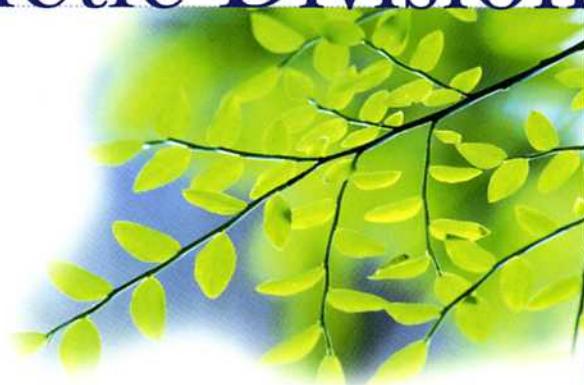
SNF works in close contact with companies of the cosmetic industry to develop new polymers that meet the requirements of this sector.

Specific performance tests have been put in place for the FLOCARE™ range in order for SNF to guarantee the constant quality of its polymers in regards to the application.

Using the latest polymerization techniques developed in-house, FLOCARE™ polymers are easy to handle, quick to implement and can develop innovating formulas.

Based on SNF's present know-how and technologies, the FLOCARE™ range offers:

- **Conditioning agents and film-forming compounds**
- **Exfoliating polymers**
- **Acrylic based thickeners and emulsifiers**
- **Dispersants for make-up products**



Conditioning agents and film-forming compounds

Conditioning agents and film-forming compounds



SNF manufactures polymers used for their conditioning and film-forming properties in skin care and hair care products.

FLOCARE™ C are cationic polymers based on DADMAC monomer manufactured by SNF. Products from the FLOCARE™ C range are widely used in hair care products to facilitate combing and untangling as well as to enhance shine and add softness to the hair.

Used in a skin care product, FLOCARE™ C will give a soft and velvety touch to the skin.

“ a soft
and velvety touch
to the skin ”

FLOCARE™ C products are fully compatible with anionic components and therefore allow the formulations of completely transparent cosmetic products.

A non-ionic polymer with a very high film-forming property, the FLOCARE™ T920GC completes this range. This last property is very interesting because it makes spreading thick products easier, it can be used in milks and creams, and it provides the slipping for shaving creams...



Exfoliating polymers

SNF synthesizes a range of superabsorbing polymers that are characterized by their capacity to absorb large quantities of water. These superabsorbants are usually used in the hygiene industry.

FLOCARE™ G300 and G800 belong to this family of polymers. They are used by the cosmetic industry for their scrubbing and exfoliating properties. As a result of their specific chemical structure, FLOCARE™ G grains deforms under pressure during the application, and when applied by massage and polishing, they provide a very soft non-abrasive scrubbing of the skin surface.

“a very soft non-abrasive scrubbing of the skin surface”



<i>FLOCARE™ C106</i>	Treatment products for damaged Hair dyes
<i>FLOCARE™ C107</i>	Conditioning shampoos Products for dry hair Transparent shower gels and liquid soaps
<i>FLOCARE™ G300</i> <i>FLOCARE™ G800</i>	Exfoliating gels and creams for face and body Masks
<i>FLOCARE™ T920 GC</i>	Shaving gels Cleaning lotions Cleansing emulsions



Thickeners

and acrylic emulsifiers



SNF offers a range of multifunctional polymers. These polymers perform as thickeners for aqueous products, emulsifiers for water/oil systems and stabilizers for emulsions and suspensions.

*“easy to handle,
quick to implement
and ready to use”*

These products are manufactured under carefully controlled conditions specifically for use in the personal care industry, and are commercially available in two different physical forms:

- FLOCARE™ ET products are very concentrated and fluid dispersions
 - FLOCARE™ PSD products are powders
- For similar performances, SNF offers the choice of form and use.

These two physical forms are both easy to handle, quick to implement and ready to use.

The manufacturing processes used for FLOCARE™ ET and PSD permit substitution of component monomers, thus allowing controlled modification to the performance characteristics of the final product.

The FLOCARE™ ET and PSD consist of a large range of polymers specifically adapted to the system that needs to be thickened or stabilized. The polymer will be selected according to the characteristics of the final product (pH conditions, salt amount, electrolytes present, aspect, feel...)

FLOCARE™ ET and PSD give to cosmetic products a light and non-greasy texture as well as a creamy and shiny aspect.



Thickeners and acrylic emulsifiers

Dispersants

“a stable and homogeneous dispersion of small particles”

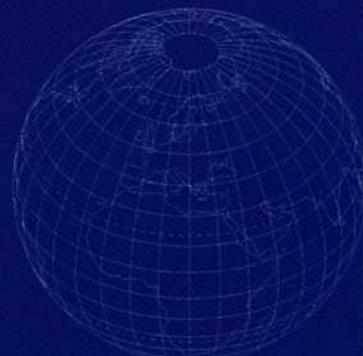
In general, dispersing agents are low molecular weight water soluble polymers. They provide a stable and homogeneous dispersion of small particles like pigments. FLOCARE™ AD is frequently used to optimize pigment use in make-up products.

FLOCARE™ ET30
FLOCARE™ ET58
FLOCARE™ ET75
FLOCARE™ ET200
FLOCARE™ PSD100
FLOCARE™ PSD30
FLOCARE™ PSD200

Gels
Lotions and creams
Cream like gels
Cleansing creams
Products for sensitive skin, for babies
Hair balms
Pigment dispersion
Nail polish

FLOCARE™ AD





Available literature :

- *English and French versions*
- *Technical Data Sheets*
- *Formulation guidelines*

For any further information
concerning the Cosmetic Division FLOCARE™,
please contact:

SNF S.A.
41 rue Jean Huss - 42028 Saint Etienne Cedex 1 France
Tel: +33 (0)4 77 47 66 00 - Fax: +33 (0)4 77 47 66 96
floerger@snf.fr

