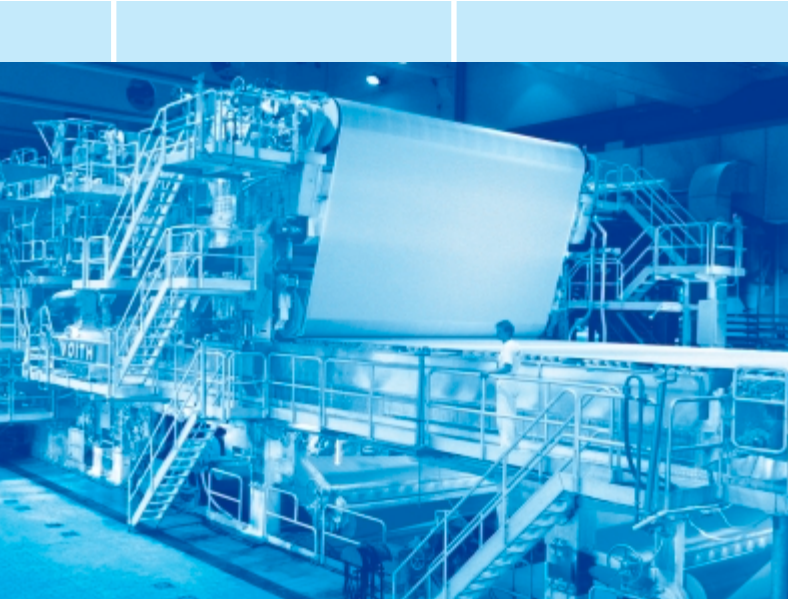


PETER GREVEN – Competence in Paper



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Partner of industry

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In paper production, soaps, metal soaps, and fatty acids are among the indispensable auxiliary agents. In this context, the main areas of application are the processing of used paper and the production of coated papers.

Peter Greven Fett-Chemie has adjusted the properties of these products to the requirements of modern paper production and created a range of special products which have become important auxiliaries for the paper industry.



Collector chemicals for flotation de-inking

The extraction of pulp from waste paper is of increasing significance. There is an increase in the quantity of use, as well as in the development of new possibilities for use. Due to these developments, the raw materials resources are spared, and loads on the environment from processing cellulose are avoided.

At the same time, efforts can be seen which work towards an even more environmentally friendly de-inking procedure. Soap-based collector chemicals are an important contribution in this context, since the calcium soaps formed during the de-inking process are generally recognised as physiologically safe and environmentally neutral.

As a result of these trends, however, the demands on the quality of the de-inked pulp, and therefore also the demands on the used auxiliary agents, are increased, as well. In addition to the brightness, ash content, reduction of pinholes and stickies with the least possible loss of fibres play an important role today.

Soap-based products

LIGANOL KT/N **LIGANOL KT/V**

The basis of this collector chemical available in granule form are soda soaps of selected fatty acids. LIGANOL KT/V is produced on vegetable basis.

LIGANOL PSF 1

This is a liquid collector on soap basis. The main area of use is the tissue area or the use as second collector chemical, e. g. in secondary flotation. In addition to a good increase in brightness, the product ensures efficient reduction of pinholes and stickies. It is possible to use it in the neutral or pseudo-neutral area.

Fatty-acid based products

LIGANOL S

This product provides the user with a collector on the basis of special natural fatty acids which is liquid at room temperature. This ensures simple handling and good saponifiability.

LIGANOL OST **LIGANOL D2**

Both products are offered primarily as liquid hot collectors. The special selection of the fatty acids guarantees good saponifiability. Therefore, direct dosage into the pulper is possible. LIGANOL OST is also available as a spray.

LIGANOL FSD

Due to the dispersed form of the fatty acids, simple handling and quick saponification during use is guaranteed. Therefore, the product is mainly used as additional collector, however, it may also be used as main collector thanks to additives supporting flotation.

Auxiliary products

Slip additives for coatings

High processing speeds with the production of coated papers and the demand for a process which is as troublefree as possible make corresponding demands on the auxiliary agents used. In this context, soaps and metal soaps, which have been further developed to special products by Peter Greven Fett-Chemie, render indispensable services.

The processing operation during and after coating are facilitated. Sticking of the coating on the upper calender roller is prevented. At the same time, the soaps and metal soaps are effective as waterproofing agents and reduce foam formation. Gloss and smoothness of the coated papers are improved.

LIGAFLUID CA 50 PN **LIGAFLUID CA 50 F** **LIGAFLUID CA 50 CW**

These are calcium stearate dispersions with a solids content of approx. 50% for the production of coatings recipes in the offset area. In addition to the good storage stability, these dispersions are distinguished by a high fineness and good compatibility in the coatings recipes. They may be used in the alkaline and slightly sour pH area. The rheology of the coatings is not impaired.

LIGAFLUID AS 25 **LIGAFLUID AS 30** **LIGAFLUID 30 AMW**

Aqueous dispersion of ammonium stearate with favourable influence on the coating rheology, which is mainly used in the field of gravure printing. The products dampen the foam tendency during the processing operations.

LIGAFLUID ZP 40 **LIGAFLUID 40 ZW**

Aqueous zinc stearate dispersions used as slip additives for thermal paper. The dispersions are distinguished by good compatibility in the coating recipes. Basic whiteness and ageing stability are not affected.

LIGANOL ST 35 F

Liquid compound of slip and separating agents for primary use in the field of gravure printing. The product is distinguished by similar properties as the ammonium stearate, however, without the often disturbing smell of ammonia.

Products for abrasive papers

In particular with abrasive papers for dry grinding, metal soaps provide substantial improvements. The friction between the abrasive carrier and the ground is reduced. This results in lower temperatures during the grinding process, and the material surface is spared. Swarf build-up on the abrasive paper is not as fast, since the metal soaps coat the wheel swarf with a thin film and thus are effective as separating agents.

LIGAFLUID ZP 40 **LIGAFLUID CA 50 PN** **LIGAFLUID 40 ZW** **LIGAFLUID 50 CW**

These dispersions may be applied in diluted form to ready-made abrasive paper, e. g. by rolling, brushing, or spraying on. The special selection of the emulsifying agents guarantees the wetting of the abrasive carrier between the abrasives.

LIGA CALCIUMSTEARAT 800 **LIGA ZINKSTEARAT 101/6** **LIGA ZINKSTEARAT 101/6 WD**

The application of these pulverised stearates occurs by means of a primer. However, it is also possible to produce one's own dispersions. LIGA ZINKSTEARAT 101/6 provides advantages: this type of zinc stearate can be dispersed more easily by the inclusion of surface-active substances.





Peter Greven Fett-Chemie GmbH + Co. KG
Peter-Greven-Str. 20 - 30 | 53902 Bad Münstereifel
Phone: +49(0)2253/313 - 0 | Fax: +49(0)2253/313 - 134
E-mail: greven@peter-greven.com | Internet: www.peter-greven.com

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