

PERGLUTIN[®]

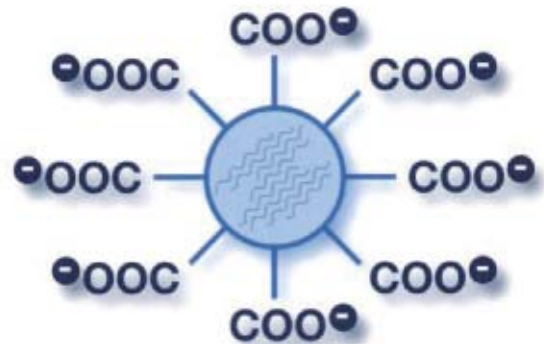
A synthetic sizing agent for
surface and internal sizing



Every productive second counts!
PERGLUTIN[®] - your key to success
High quality in process and paper properties

Anionic Surface Sizing Agents

- Especially for graphic and total office papers
- Support of optical brightening
- High tolerance of electrolytes



PERGLUTIN® A 200

- polymer solution with strong anionic character
- styrene-methacrylate copolymer
approx. 16% active substance
charge equivalent: 480g/eq COO^-
glass transition temp.: approx. 30°C
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR

PERGLUTIN® A 288

- anionic polymer dispersion
- styrene-acrylate copolymer
approx. 26% active substance
charge equivalent: 3500g/eq COO^-
glass transition temp.: approx. 50°C
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR and to the requirements of the FDA regulations

PERGLUTIN® A 235

- anionic polymer dispersion
- styrene-acrylate copolymer
approx. 30% active substance
charge equivalent: 3500g/eq COO^-
glass transition temp.: approx. 50°C
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR and to the requirements of the FDA regulations

PERGLUTIN® A 330

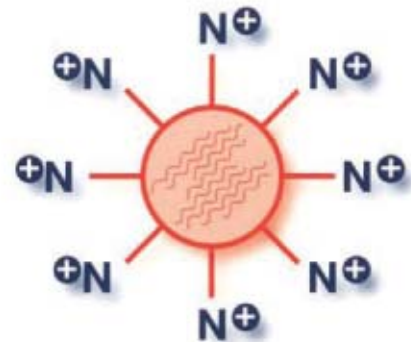
- anionic polymer dispersion
- styrene-acrylate copolymer
approx. 31% active substance
charge equivalent: 3000g/eq COO^-
glass transition temp.: approx. 50°C
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR and to the requirements of the FDA regulations

PERGLUTIN® A 281

- anionic polymer dispersion
- styrene-acrylate copolymer
approx. 26% active substance
charge equivalent: 3500g/eq COO^-
glass transition temp.: approx. 50°C
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR and to the requirements of the FDA regulations

Cationic Surface Sizing Agents

- High performance on all base papers
- Very good initial sizing
- High affinity to fibres



PERGLUTIN® K 175 EP

- polymer solution with high cationic charge density
- acrylate copolymer
approx. 17% active substance
charge equivalent: 820g/eq N⁺
glass transition temp.: approx. 5°C
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR and to the requirements of the FDA regulations

PERGLUTIN® K 485

- cationic polymer dispersion
- styrene-acrylate copolymer
approx. 32% active substance
charge equivalent: 1340g/eq N⁺
glass transition temp.: approx. 50°C
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR and to the requirements of the FDA regulations

PERGLUTIN® K 418

- polymer solution with high cationic charge density
- for special sizing and printing demands
- combined internal and surface sizing
- acrylate copolymer
approx. 19% active substance
charge equivalent: 800g/eq N⁺
glass transition temp.: approx. -30°C
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR and to the requirements of the FDA regulations

PERGLUTIN® K 532

- cationic polymer dispersion
- styrene-acrylate copolymer
approx. 30% active substance
charge equivalent: 1450g/eq N⁺
glass transition temp.: approx. 60°C
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR and to the requirements of the FDA regulations

PERGLUTIN® K 440

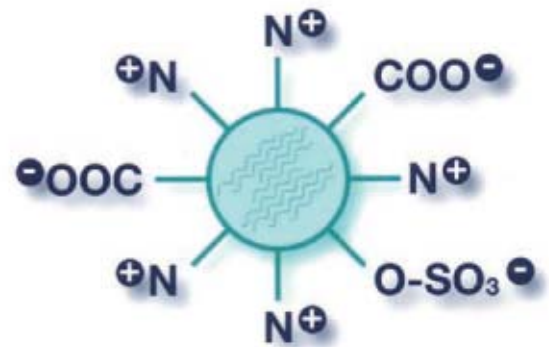
- cationic polymer dispersion
- styrene-acrylate copolymer
approx. 25% active substance
charge equivalent: 1400g/eq N⁺
glass transition temp.: approx. 60°C
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR and to the requirements of the FDA regulations

PERGLUTIN® K 600

- cationic polymer dispersion
- styrene-acrylate copolymer
approx. 30% active substance
charge equivalent: 1350g/eq N⁺
glass transition temp.: approx. 65°C
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR and to the requirements of the FDA regulations

Neutral Sizing Agents for Surface and Internal Sizing

- Increase of picking resistance
- Support of optical brightening
- Reduction of dust formation



PERGLUTIN® 204

- amphoteric polymer dispersion
- styrene-acrylate copolymer
approx. 42% active substance
- high tolerance of electrolytes
- suitable for highly loaded size press circulations
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR
and to the requirements of the FDA regulations

PERGLUTIN® 395

- amphoteric polymer dispersion
- styrene-acrylate copolymer
approx. 30% active substance
- high tolerance of electrolytes
- suitable for highly loaded size press circulations
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR
and to the requirements of the FDA regulations

PERGLUTIN® 450/240

- polymer dispersion in combination with AKD
approx. 28% active substance
- internal sizing: in the neutral pH range good
initial sizing
- compatible with cationic and anionic processing
aids
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR
and to the requirements of the FDA regulations

PERGLUTIN® 450/280

- polymer dispersion in combination with AKD
approx. 21% active substance
- good initial sizing in the neutral pH range
- compatible with cationic and anionic processing
aids
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR
and to the requirements of the FDA regulations

PERGLUTIN® 450/160 P

- polymer dispersion in combination with AKD
approx. 20% active substance
- for neutral internal sizing
- good initial sizing
- compatible with cationic and anionic processing
aids
- Nordic Swan Label
- RAL environmental mark
- corresponds to recommendation XXXVI of the BfR
and to the requirements of the FDA regulations

PERGLUTIN®


Synthetic Sizing Agents
Surface Sizing and Internal Sizing

For over 20 years BK Giulini has developed new synthetic sizing agents for surface and internal sizing, which help the paper producers, besides a variety of special products, to fulfill highest requirements on paper quality and on environmental protection.

Our researchers and application engineers constantly adjust our products to the state of the art and are available to advise you on the optimal application of the sizing agents as well as on the conception of appropriate dosage systems.

The application of PERGLUTIN® sizing agents leads to a better printability of the paper, an increase of the picking resistance, a reduction of the dust formation and indirectly to a load diminution of the water circuits.

You will find the current PERGLUTIN® sizing agents for surface and internal applications in the following overview.



| | | | | |
|-----------------------------|--------------------------------|-----------------------------------|---------------------------------|-------------------------------|
| PERGLUTIN® A 200 | PERGLUTIN® A 235 | PERGLUTIN® 204 | PERGLUTIN® K 440 | PERGLUTIN® K 175 EP |
| | PERGLUTIN® A 281 | PERGLUTIN® 395 | PERGLUTIN® K 485 | PERGLUTIN® K 418 |
| | PERGLUTIN® A 288 | PERGLUTIN® 450/240 | PERGLUTIN® K 532 | |
| | PERGLUTIN® A 330 | PERGLUTIN® 450/280 | PERGLUTIN® K 600 | |
| | | PERGLUTIN® 450/160 P | | |
| anionic solution | anionic dispersions | amphoteric dispersions | cationic dispersions | cationic solutions |

Product Range

Aluminium compounds

Wet strength agents

Surface sizing agents

Biocides

**Retention and
flocculating agents**

Defoamers

Deinking and bleaching aids

Fixing and dispersing aids

Flame retardants

Scale inhibitors

Special processing aids

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BKG  **Paper Solutions**
BK Giulini – always a step ahead