

water



sewage



paper



industry



export

NICASAL® – for cost and water savings in your water cycle



NICASAL® is a flocculant that has been specially developed for water circuits. NICASAL® achieves significantly better results than comparable flocculants (aluminium sulphate, polyaluminium chloride, ferric chloride):

Your benefits from using NICASAL®:

- ▶ Very fast **reaction speed**
- ▶ **Stable and compact flocs**
- ▶ Excellent **turbidity and COD reduction** → **Water cycle becomes cleaner**
- ▶ No chloride input → **Lower conductivity + no corrosion**
- ▶ Lower salt loads → **Better effect of other additives + process stability**
- ▶ **No odour problems** due to hydrogen sulphide or other digestion processes
- ▶ Fewer or no **biocides** required
- ▶ Reduction in water consumption → **Sustainability + cost savings**
- ▶ Reuse of recycled water → **Conservation of resources**
- ▶ **Cost savings** thanks to the sum of all technical advantages

NICASAL® complies with worksheet A-202 of the DWA and the XXXVth Recommendation "Paper, cardboard and paperboard for food contact" of the Federal Institute for Risk Assessment (BfR).



NICASAL® for the paper industry



NICASAL® is a highly effective additive that has been specially developed for water circuits. NICASAL® achieves significantly better results than comparable additives (aluminium sulphate, polyaluminium chloride, coagulants, fixing agents):

- ▶ Fines and filler retention – Ash retention
- ▶ Impurity fixation – Reduction of anionic trash
- ▶ Sizing support (resin, AKD, ASA or surface size)
- ▶ Water quality (turbidity, TSS , COD)

Your benefits from using NICASAL®:

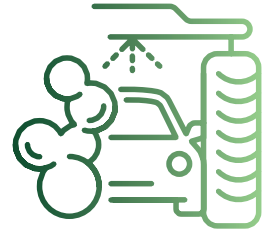
- ▶ **Very fast reaction speed**
- ▶ Excellent **turbidity and COD reduction** → **Water cycle becomes cleaner**
- ▶ No chloride input → **Lower conductivity + no corrosion**
- ▶ Problems relating to corrosion, salt content and quality are **permanently solved** → Better effect of other chemical additives
- ▶ **No odour problems** due to hydrogen sulphide or other fouling processes
- ▶ Fewer or no **biocides** required
- ▶ Reduction in water consumption → **Sustainability + cost savings**
- ▶ Reuse of recycled water → **Conservation of resources**
- ▶ **Cost savings** through the sum of all technical advantages

NICASAL® can be used in fresh water, thick stock, thin stock, white water or waste water. NICASAL® complies with DWA worksheet A-202 and the XXXVIth recommendation “Paper, board and cardboard for food contact” of the Federal Institute for Risk Assessment (BfR).



NICASAL® for car washes

NICASAL® is a flocculant that has been specially developed for water circuits in car wash systems. NICASAL® achieves significantly better results than comparable flocculants (aluminium sulphate, polyaluminium chloride, ferric chloride, organic coagulants):



Your benefits from using NICASAL®:

- ▶ **Very fast reaction speed**
- ▶ **Stable and compact flocs**
- ▶ **Excellent turbidity and COD reduction → Water cycle becomes cleaner**
- ▶ **No chloride input → Lower conductivity + no corrosion**
- ▶ **Lower salt loads → Better effect of other additives + Process stability**
- ▶ **No odour problems** due to hydrogen sulphide or other fouling processes
- ▶ **Fewer or no biocides** required
- ▶ **Reduction in water consumption → Sustainability + cost savings**
- ▶ **Reuse of recycled water → Conservation of resources**
- ▶ **Cost savings** through the sum of all technical advantages

NICASAL® complies with DWA worksheet A-202.



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NICASAL® for paint and colour coagulation

NICASAL® is a flocculant that has been specially developed for water circuits in paint and colour coagulation systems. NICASAL® achieves significantly better results than comparable flocculants (aluminium sulphate, polyaluminium chloride, ferric chloride, organic coagulants).



Your benefits from using NICASAL®:

- ▶ Very fast reaction speed
- ▶ Stable and compact flocs
- ▶ Excellent turbidity and COD reduction → Water cycle becomes cleaner
- ▶ No chloride input → Lower conductivity + no corrosion
- ▶ Problems relating to corrosion, salt content and quality are permanently solved → Better effect of other chemical additives
- ▶ No odour problems due to hydrogen sulphide or other fouling processes
- ▶ Fewer or no biocides required
- ▶ Reduction in water consumption → Sustainability + cost savings
- ▶ Reuse of recycled water → Conservation of resources
- ▶ Cost savings through the sum of all technical advantages

NICASAL® complies with DWA worksheet A-202.