

NALSIZE **ONE**[™]

Achieving Sizing Efficiency

SAFE | SIMPLE | SUSTAINABLE



NALCO  **Water**
An Ecolab Company

Nalco Water's Nalsize One sizing technology delivers superior liquid hold-out while providing:

- Optimized Machine Efficiency
- Improved End-Product Quality
- Simplified Logistics & Delivery



Program Benefits

MACHINE EFFICIENCY

- Increased up-time
- Reduced deposition
- Fewer boil-outs
- Increased speed

PROGRAM EFFICIENCY

- Total Cost of Operation (TCO) savings
- Improved sizing response
- Reduced complexity
- BOD/COD reduction

END-PRODUCT QUALITY

- Reduced variability
- Higher sized sheet
- Grade development potential



Sustainability

We are committed to helping you reach key sustainability metrics. Nalsize One Sizing Technology is an environmentally responsible innovation that will contribute to your success.



Reduced BOD/COD in wastewater through replacement of size emulsification starch



Reduction in overall chemical usage



Reduction in your carbon footprint through less frequent deliveries

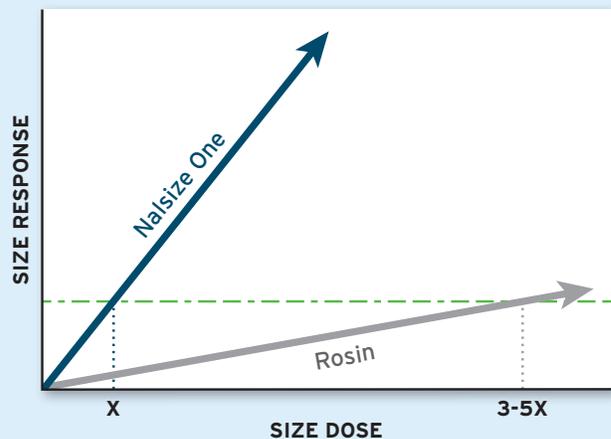
Regulatory Compliance

- Meets food safety and sustainability regulations (FDA, BfR, China GB, Ecolabel, Nordic Swan)
- Adheres to **Responsible Care**® guiding principles

How Nalsize One compares to Rosin

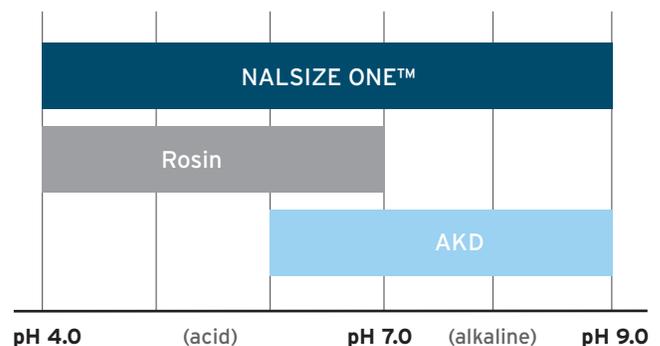
- Nalsize One uses one-third to one-fifth the dose of Rosin to achieve the same sizing response
- Nalsize One does not require an aluminum source to achieve sizing performance
- Nalsize One has reduced process deposition potential
- Nalsize One has minimal to no foaming potential
- Nalsize One provides flexibility to optimize machine pH

ROSIN VS. NALSIZ ONE™



Operating Window

Nalsize One performs in a broad operating pH of 4.0 to 9.0. This matches the combined range of Rosin and AKD while maximizing performance.



Nalco Water, an Ecolab Company

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