



## ACUMER™ 2100 Scale Inhibitor and Dispersant

### PHYSICAL AND CHEMICAL PROPERTIES (These do not constitute specifications)

Aspect	Clear solution*
Chemical nature	Carboxylate/Sulfonate copolymer
Average molecular weight	11000 (Mw)
Total solids (%)	37
pH as is (at 25 °C)	4.8
Viscosity Brookfield (mPa.s at 25 °C)	225

\* A slight haze may appear, this does not affect the intrinsic properties of the product or its performance.

### CHEMISTRY AND MODE OF ACTION

ACUMER™ 2100 copolymer combines two functional groups: strong acid (sulfonate) and weak acid (carboxylate) that provide optimal anti-scale/dispersant efficiency through the following different mechanisms:

- Solubility enhancement by threshold effect, which reduces precipitation of sparingly soluble inorganic salts (calcium carbonate in particular).
- Crystal modification, which deforms the growing inorganic salt crystal to give small, irregular, readily fractured crystals that do not adhere well to surfaces and can be easily removed during cleaning operations.
- Dispersing activity, which prevents precipitated crystals or other inorganic particles from agglomerating and depositing on surfaces. The sulfonate groups increase the negative charge of the carboxylate groups adsorbed onto particles and, by then, reinforce the

repulsion between the particles, preventing them from aggregating into larger particles which can settle and deposit on tube surfaces and low flow areas.

### PERFORMANCE

ACUMER™ 2100 provides superior stabilization of calcium phosphate, zinc and calcium carbonate. It also prevents calcium sulfate and calcium oxalate scales, even in extreme pH environments (pH 4-10).

In addition, ACUMER™ 2100 is a strong dispersant in keeping the silt and commonly encountered inorganic particles suspended and in preventing their settling out onto heat transfer surfaces.

### APPLICATIONS

- Industrial water treatment:
  - Dispersant for boiler sludge control
- Pulp and paper process:
  - Dispersant and scale inhibitor

### BENEFITS OF ACUMER™ 2100

- Contains no phosphorus, making its use acceptable where legislation requires that discharge waters contain no or low phosphorus.
- Exhibits good stability in the presence of hypochlorite.
- Shows good anti-scaling efficiency against calcium carbonate, calcium sulfate and calcium oxalate at low dosage over a wide range of pH, water hardness and temperature conditions.
- Exhibits a good thermal stability.
- Offers a very strong dispersant activity.

# Acumer 2000 Scale Inhibitor And Dispersant



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**Acumer 2000 Scale Inhibitor And Dispersant:**

## Decoding **Acumer 2000 Scale Inhibitor And Dispersant**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Acumer 2000 Scale Inhibitor And Dispersant**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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