



## Technical Data

### **ACUMER™ 9341**

#### Dispersant Polymer for Mineral Slurries

#### **Product Description**

ACUMER™ 9341 is the sodium salt of a polyacrylic acid selected for optimizing the factors affecting dispersancy:

- Polymer molecular weight
- Polymer composition
- Polymer structure
- Mode of surface adsorption

Without dispersant, the particles in a slurry aggregate, resulting in an unstable slurry with unacceptable high viscosity. ACUMER 9341 mining polymer stabilizes high solids slurries and allows lowering the viscosity to relatively low levels at the time of initial formulation and maintains a low viscosity during storage.

#### **Typical Properties**

Property	Typical Value
Appearance	Clear solution <sup>1</sup>
Chemical nature	Acrylic homopolymer
Grade	Sodium salt
Average molecular weight	4500 (Mw)
Total solids (%)	~41
pH as is (at 25°C)	~7
Bulk density (at 25°C)	~1.32
Brookfield viscosity (mPa.s/cps at 25°C)	~600

<sup>1</sup>A slight haze may appear; this does not affect the intrinsic properties of the product or its performance.

These properties do not constitute specifications.

#### **Dosage**

ACUMER 9341 is effective at low dosage between 0.2 to 0.6% polymer solids on slurry solids, depending on the nature of the slurry and on the grinding (coarse or fine particles).

#### **Applications**

ACUMER 9341 can be used efficiently for the dispersion of different slurries:

- Low solids kaolin clay (70%)
- Primary blunger dispersant for kaolin clay
- Clay/barbotine for ceramics
- Ceramic tile
- Miscellaneous inorganics

## Storage Recommendation

Freezing or long-term cold storage of ACUMER™ 9341 may cause some separation of the components. Although product performance is not impaired as long as the whole container is heated and well mixed, it is recommended to keep ACUMER 9341 out of freezing temperatures.

## FDA Clearance

ACUMER 9341 dispersant polymer complies with the FDA Food Additives regulations indicated below, provided that the final formulation meets the limitations and other conditions prescribed by the regulation.

- 21 CFR 176.170 Components of paper and paperboard in contact with aqueous and fatty food.
- As a pigment dispersant in coatings at a level not to exceed 0.25% by weight of the pigment.
- 21 CFR 176.180 Components of paper and paperboard in contact with dry food.
- 21 CFR 176.110 Not to exceed 2% of paper or paperboard weight (based upon solids of product).

For specifics on any limitations, please contact your local Dow sales representative.

## Product Stewardship

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Note: This guide is designed as a general product overview. Please contact your local Dow representative for up-to-date, detailed technical information including registrations and use limitations and to discuss individual applications or requirements.

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