



# TECHNICAL INFORMATION

## POLYGON PC 2406

Phosphorus-free, polymeric dispersing agent for scale inhibition

### 1. DESCRIPTION

POLYGON PC 2406 is a phosphorus-free, acrylic co-polymer having dispersing properties, especially toward inorganic salts such as carbonates salts, sulphates and phosphates salts and silica and its derivatives. The dispersing capability of this polymer makes it a high performing scale inhibitor for application in various water treatment segments, such as industrial plants cleaning processes, reverse osmosis, oil and gas.

### 2. APPLICATION

POLYGON PC 2406 is ideal for inhibiting calcium carbonate deposits. A dosage of 60 ppm of substance can be sufficient to control the CaCO<sub>3</sub> by dispersing the metal ions present in solution and reducing the nucleation process, which leads to a reduction in crystal precipitation. By dosing more than 90 ppm of active substance it is possible to completely avoid formation of CaCO<sub>3</sub> precipitates.

POLYGON PC 2406 is also suitable for preventing the flocculation of calcium or magnesium silicate. A flocculation of these silicates can be avoided with a minimum dose of 200 ppm of active substance.

### 3. FORMULATIONS

For more details please contact your local representative.

### 4. PACK SIZES

IBC of 1000 kg

### 5. HANDLING AND STORAGE

**Storage stability:** Very good

**Shelf life:** minimum 12 months from date of delivery, if stored in unopened original packing at a cool, dry, well-ventilated place. Storage temperature: 0 – 50 °C

**Handling:** Personal protection equipment required as per labelling.

**Conditions and materials to be avoided:** none particularly known

## 6. LABELLING AND CUSTOMS TARIFF NUMBER

Labelling according to guideline (EG) 1272/2008: Non-hazardous

Labelling according to ADR: No dangerous good in sense of the transport regulation.

Customs tariff number (EU): 3906.90.90

## 7. TECHNICAL DATAS

Properties	Specification	Method
Appearance	Yellow limpid liquid	visually
Dry matter at 105°C	40 %	IR
pH 10 %	2.5	pH meter
Viscosity	100 cPs	Brookfield at 20°C
Molecular weight average	16000 Da	proprietary

## 8. OTHER TECHNICAL DATA

Odour	Light
Flash point	>100 °C (DIN 51758)
Flammability	Not applicable
Danger of explosion	Not explosive
Solubility in water	Not miscible or difficult to mix

*All information given above is based on our experience and current know-how and is no warranty for any product properties. The figures may change, particularly for technical reasons. If it is important for you that the product conforms to certain requirements, please do not hesitate to contact us. The values given under "Specification" are only valid if they are confirmed by us in writing. Please consult also the safety data sheet.*