# BASF WATER SOLUTIONS

## CORE PRODUCTS

### SETTLING THICKENING & DEWATERING

#### COAGULANTS

- **ORGANIC**
  - Cationic Liquids
    - PolyDADMAC
    - Polyamine
    - Blends

#### FLOCCULANTS

- **POWDER & LIQUID**
  - Cationic
  - Anionic
  - Non Ionic

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[Image of water treatment plant]

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[Image of water tap and glass]
PRODUCT RANGE

Coagulants & Floculants

POWDERS (Cationic) 81XX series also called gels
POWDERS (Anionic) Magnafloc range (LT Range for potable)
Zetag 41XX Series

BEADS Zetag 75XX series

EMULSIONS Zetag 88XX and 90XX Range

MAGNAFLOC (Sol’n liquids) Cationic liquid solution coagulants

MAGNASOL Coagulant blends
POWDER - Gel and Beads

- **ZETAG 75XX SERIES**: 
  
  **X = 5 Bead**
  
  eg: Beads 7563, 7557, 7530

- **ZETAG 81XX SERIES**
  
  eg: 8180 = 80% cationic, 8160 = 60% cationic, 8185 = 80% HMWT, 8165 = 60% HMWT ETC:
PRODUCT RANGE

Liquids

INVERSE EMULSIONS

ZETAG 88XX and ZETAG 90XX

EMULSIONS (88xx) = Polymer + Mineral Oil + Water 41 % – 47% Solids
EMULSIONS (90xx) = Polymer + Mineral Oil + Water 44 % – 52% Solids

XX4X = means FS 40% regain eg: 8846FS, so XX6X means 60% regain eg: 9066FS
XX1X = means Linear eg: 8816, 8818, 9016, 9018

XXX6 = 60 % cationic eg: 8816, 8846FS, 9016, 9046FS
XXX8 = 80 % cationic eg: 8818, 8848FS, 9018, 9048FS
BASF OFFER POWDERS & LIQUID POLYMERS

BENEFITS OF POWDER POLYMERS

FLOCCULANT PROPERTIES

- **POWDER**
  - POLYMER: 95%
  - WATER: 5%

- **DISPERSION**
  - POLYMER: 50%
  - OIL: 50%

- **EMULSION**
  - POLYMER: 33%
  - OIL: 33%
  - WATER: 33%
BASF OFFER POWDERS & LIQUID POLYMERS

BENEFITS OF POWDER POLYMERS

**LIQUID POLYMERS**
- Liquid polymers are more expensive on an active basis and operational cost for dewatering.
- Liquid Polymers have up to 50% mineral oil content with a distinct oily smell like diesel
- Due to the high oil content the oil mostly ends up in the dewatered sludge
- Liquid flocculants have a shorter shelf life of 6 – 12 months due to separation of the oil phase
- More storage area required and often a bunded pit is required for liquids

**POWDER POLYMERS**
- Lower cost per kg of active and reduced operational cost
- Powder polymers have less to no odour
- Less oil in sludge using powder means sludge may be suitable for more applications when disposed
- Powders have a longer shelf life of over 12 months
- Less storage space due to less required based on activity and no bunded area required
Water Solutions Europe

Zetag® - Portfolio
Cationic Solid Grade Flocculants

Available Packaging

Zetag® - cationic Powder
24 months shelf life
- 100 g sample
- 25 kg bag (Full pallet size 900 kg)
- 700 kg big bag
- bulk

Zetag® - cationic Bead
24 months shelf life
- 100 g sample
- 25 kg bag (Full pallet size 900 kg)
- 800 kg big bag

- Available in Europe & Americas

ZETAG® - cationic Powder
NEW
ZETAG 8127
Launched 2014
ZETAG 8147
ZETAG 8167
ZETAG 8187

ZETAG 8125
ZETAG 8110
ZETAG 8127
ZETAG 8147
ZETAG 8167
ZETAG 8187

ZETAG 8140
ZETAG 8165
ZETAG 8185

ZETAG 7550
ZETAG 7557

ZETAG 7563
ZETAG 7563
ZETAG 7587

ZETAG® - cationic Bead
ZETAG® - cationic Powder

Cationicity (Wt%)

Mol. Weight

0 10 20 30 40 50 60 70 80 90 100

Manufactured from BASF UK sites
Zetag® - Portfolio
Cationic Liquid Grade Flocculants

Available Packaging

Zetag® 8800 Series - Inverse Emulsions
6 months shelf life
- 100 g sample
- 25 kg keg (Full pallet size 800 kg)
- 1,000 kg IBC
- Bulk

Zetag® 9000 Series - Inverse Emulsions
6 months shelf life
- 100 g sample
- 25 kg keg (Full pallet size 800 kg)
- 1,000 kg IBC
- Bulk

Available in Europe & Asia
Available Packaging
Zetag® 78 Series – Dispersion

- 12 months shelf life
- 100 g sample
- 20 kg
- 200 kg
- 1,000 kg IBC
- Bulk

- Available in Americas & Asia

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<tr>
<th>Structure</th>
<th>Cationicity (Wt%)</th>
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<tr>
<td>ZETAG 7869</td>
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Manufactured from BASF USA sites
Available Packaging

Zetag® - anionic Powder

- 24 months shelf life
- 100 g sample
- 25 kg bag (Full pallet size 900 kg)
- 700 kg big bag

- Available globally
Magnafloc® LT - Range
Anionic / Non-ionic / Cationic Solid Grade Flocculants and Coagulation Aids

Available Packaging
Magnafloc® LT – Powder
24 months shelf life
• 100 g sample
• 25 kg bag (Full pallet size 900 kg)
• 700 kg big bag

Available globally

Manufactured from BASF UK sites

Certified to NSF/ANSI 60
**Available Packaging**

**Magnaflor® LT - polyamine (epi-amine)**
24 months shelf life
- 100 g sample
- 1,100 kg IBC
- Bulk

**Magnaflor® LT – polyDADMAC**
24 months shelf life
- 100 g sample
- 1,100 kg IBC
- Bulk

- Available in Europe

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**NSF Certified to NSF/ANSI 60**

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**Water Solutions Europe**

**Magnaflor® LT - Range**

**Organic Liquid Grade Coagulants**

**Manufactured from BASF USA sites**
## Available Packaging

**Magnafloc® LT - polyamine (epi-amine)**
- 24 months shelf life
- 100 g sample
- 200 kg
- 1,100 kg IBC
- Bulk

**Magnafloc® LT – polyDADMAC**
- 24 months shelf life
- 100 g sample
- 200 kg
- 1,100 kg IBC
- Bulk

### NSF Certified
- NSF/ANSI 60

### Manufactured from BASF USA sites
Magnaflow® LT - Range
Organic Liquid Grade Coagulants

Available Packaging

Magnaflow® LT – polyDADMAC
24 months shelf life
• 100 g sample
• 200 kg
• 1,100 kg IBC
• Bulk

Available Australia

Certified to NSF/ANSI 60