INDUSTRY

M-FLOC® DAF 800
acrylamide-free pFM

Description

acrylamide-free liquid pFM (polymeric flocculant) for water treatment

Areas of application

M-FLOC® DAF 800 has been specially developed for applications where residual acrylamide is completely prohibited or where compliance with limit values is problematic, e.g.

- wastewater treatment
- sludge dewatering (belt filters and centrifuges)
- wash water treatment
- etc.

Advantages of M-FLOC® DAF 800 compared to acrylamide-containing and starch-based polymers

Acrylamide-free

- no accumulation of acrylamide in the cooling water → no increased environmental risk in the event of an accident if structural measures are not in place to prevent leaked cooling water from seeping into the drinking water supply

High PNEC-value

the PNEC is defined as the predicted concentration of a substance that is generally harmful to the environment, up to which no adverse effects on the environment are observed:

- PNEC-value acrylamide wastewater treatment plant: 0,2 mg/L
- PNEC-value monomer M-FLOC® DAF 800 wastewater treatment plant: 713 mg/L

→ M-FLOC® DAF 800 is between 100 and 1000 times more environmentally friendly than pFM containing acrylamide (depending on the specific environmental impact being considered)

Suitable for industrial use

- dissolution using a simple static mixer in a very short time
- performance comparable to pFM containing acrylamide
- significantly better cleaning performance and lower consumption than starch-based pFM

- ☑ acrylamide-free
- ☑ free from mineral oil hydrocarbons (MOH)
- ☑ high PNEC value
- ☑ easily soluble in water
- ☑ no VOC emissions
- ☑ stable floc formation
- ☑ rapid sedimentation
- ☑ low turbidity

PNEC-value [mg/L]	fresh water	sea water	wastewater treatment plant
acrylamide	0,032	0,002	0,2
monomer M-FLOC® DAF 800	2	0,2	713
factor	62,5	100	3565

Table 1: PNEC values

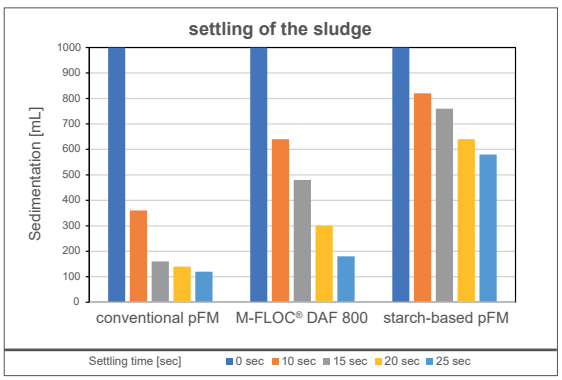

Figure 1: Sedimentation time for three different pFM values

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