

# KAPPACOM E 12

## All purpose sequestering and dispersing agent

Chemical composition	preparation of polyacrylates and alkylphosphonates
Appearance	yellowish, nearly clear solution
pH-value 20 °C	4 - 5 (product)
Density 20 °C (g/ml)	approx. 1.16
Ionic charge	anionic

### Function

KAPPACOM E 12 has an excellent dispersing effect and is an efficient sequestering agent for alkaline earth and heavy metal ions. At pH 11 and 60 °C, 1 g of KAPPACOM E 12 binds approx. 90 mg of CaO or approx. 161 mg of CaCO<sub>3</sub>. The formed complexes are very stable even at boiling temperature and in a stronger alkaline range (to approx. 3 g/l NaOH 100 %).

KAPPACOM E 12 does not cause any demetallization of direct and reactive dyes based on metallic complexes in spite of its strongly developed chelating capacity.

KAPPACOM E 12 is not interfacial-active and therefore foam-free.

### Application

KAPPACOM E 12 is a very universally applicable product, e. g.

- for dyeing of cellulosic fibres or cellulosic fibre blends with direct, reactive, vat and sulfur dyes, whereas it is possible to dye raw cotton without preliminary cleaning for example.
- for printing with reactive dyes when applying alginate thickening agents.
- for all scouring, washing and soaping processes in neutral and alkaline range.

The application level depends on the respective operating conditions. Recommended application level for long liquors:

- approx. 0.1 ml/l KAPPACOM E 12

Relating to the sequestering of water hardness, approx. 0.1 ml KAPPACOM E 12 is required per 1 °dH and 1 litre of water.

### Dilution instruction

KAPPACOM E 12 can be diluted with cold water at any ratio, but can also be added directly to the liquor.

### Storage

KAPPACOM E 12 remains stable for at least 1 year if stored properly and cool in a tightly closed original container.

### Contact

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### Standards (further on request)

- Bluesign
- GOTS
- OEKOTEX Standard 100
- ZDHC