

KAPPAQUEST A 41

All purpose sequestering and dispersing agent

Chemical composition	preparation of polyacrylates and alkylphosphonates
Appearance	yellowish, nearly clear solution
pH-value 20 °C	4,0 - 5,0 (product)
Density 20 °C (g/ml)	approx. 1.16
Ionic charge	anionic

Function

KAPPAQUEST A 41 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 KAPPAQUEST A 41 binds approx. 90 mg of CaO or approx. 161 mg of CaCO₃. This corresponds to 64 mg/g MgO or 134 mg/g MgCO₃. The formed complexes are very stable even at boiling temperature and in a stronger alkaline range (to approx. 3 g/l NaOH 100 %). At pH 6, 1 g of product binds approx. 100 mg Fe³⁺ and at pH 11 approx. 200 mg Fe³⁺.

KAPPAQUEST A 41 does not cause any demetallization of direct and reactive dyes based on metallic complexes in spite of its strongly developed chelating capacity. KAPPAQUEST A 41 is not interfacial-active and therefore foam-free.

Application

KAPPAQUEST A 41 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 KAPPAQUEST A 41

Relating to the sequestering of water hardness, approx. 0.1 ml KAPPAQUEST A 41 is required per 1 °dH and 1 litre of water.

Dilution instruction

KAPPAQUEST A 41 can be diluted with cold water at any ratio, but can also be added directly to the liquor.

Storage

KAPPAQUEST A 41 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)

- GOTS
- ZDHC