

BIOFIX KRF

Product Information

Agent for the decoloration

Chemical and physical characteristics

Chemical nature : cationic organic polymer

Appearance : colourless viscous liquid

pH as it is : 4 - 5

Storage : The product at low temperature, -5°C, has tendency to precipitate. A following heating does not compromise the qualities.

Characteristics

BIOFIX KRF is an organic polymer of extreme efficacy for the decoloration of the industrial effluents containing anionic dyestuffs.

BIOFIX KRF develops its function by forming insoluble whole with the different dyestuffs as the acids, the metal-complex, the reactives, etc.

BIOFIX KRF is a product perfectly soluble in water in all proportions.

It is suggested to use a solution at 10-20% of the product as it is.

The quantity of use of the product is theoretically in relation with the quantity of colour present in the waste (the ratio colour-product is of 1:1) but the changeability of present substance makes practically impossible a previous determination.

Please note that:

- a) an overdose of **BIOFIX KRF** can cause the re-solubilisation of the precipitate;
- b) the dyeing auxiliaries, due to the dispersing or solubilizing action, can require a higher dosage of the product;
- c) the printing thickeners can delay the formation of the whole, requiring a longer contact time.

Practically, it is not possible to give in general valid suggestion, but we believe that an easy mixing or sedimentation test is all what it is necessary to characterize the requested dosage in the plant.

Application in the plant

As anticipated it is suggested to use the product at a concentration of 10-20%. The use procedure of **BIOFIX KRF** changes according to the type of installation and to the available equipment. In the chemical-physical plants it is suggested to dose the diluted solution of **BIOFIX KRF** in the coagulation tank before the coagulants. In the biological plants the dosage takes place directly in the aeration tank. The obtained insoluble complex is usually absorbed by the biological sludge.

This information is for guidance only
