

SILICATE FREE HYDROGEN PEROXIDE STABILIZER



UNIVERSITY
OF PARDUBICE
FACULTY
OF CHEMICAL
TECHNOLOGY

TECHNOLOGY

Production technology of a new, effective stabilizer of hydrogen peroxide based on a magnesium complex of a derivative of aspartic acid for bleaching baths of cellulose materials (raw cotton, flax, wood cellulose, etc.), not harmful to the environment.

ADVANTAGE

- both for coarse, heavily soiled materials and for fine goods,
- effectiveness even in hard water containing in peroxide bleaching fatally harmful iron and manganese ions (damage and formation of holes in the bleached material),
- anticorrosive effects.

BENEFITS

This type of stabilizer, unlike stabilizers based on a complex of magnesium and water glass, does not settle on the bleached goods and the bleaching apparatus, protects the apparatus against corrosion and at the same time ensures high efficiency of the bleaching process.

APPLICATION

- technology is for companies that produce textile aids,
- own product, hydrogen peroxide stabilizer, is designed for textile and paper companies that have bleaching of cellulose materials in their production chain.

COMMERCIALIZATION

License sale and cooperation with a licensing partner in the implementation of a new production process and subsequent application of the product in selected market segments, primarily textile companies and the paper industry.

Inventor:
doc. Ing. Ladislav Burgert, CSc.

Patent situation:
Filled CZ patent application

Contact person:
Ing. Petr Kalenda, Ph.D.
petr.kalenda2@upce.cz

T A
Č R