

DONER 121

Organic acid donor for dyeing polyamide and wool

Chemical-Physical Characteristics:

Composition: Diformate of ethylene.

Physical aspect: Colorless liquid

Ion charge: Weakly anionic

pH (5% solution): 6 ± 0.5

Solubility: Excellent in cold water. Do not dilute with hot water before use.

Storage stability: Prolonged under normal conditions storage.

Property:

DONER 121 is used in dyeing baths of polyamide and wool fibers with acid, reactive, chromium and metal-complex dyes.

DONER 121 progressively releases, depending on the temperature, an organic acid by gradually lowering the pH of the dyeing bath, allowing excellent equalization of the dye on the fiber. DONER 121 allows you to work at very low pH values, values at which the dyes are completely exhausted, thus guaranteeing good reproducibility of the dyes.

The duration of the dyeing is reduced thanks to the rapid exhaustion of the bath, the departure at a higher temperature than normal and the reduction of the migration phase. This method of operation allows at the beginning to introduce the material into the bath at a temperature ranging from 70 - 100 ° C.

Working with hard water or water rich in temporary hardness, the latter can serve as an alkalinity generator and in this case it is necessary to check the final pH of the dye bath for a correct dosage of DONER 121

Doses for use:

The dyeing bath is prepared at the desired starting pH, with the possible addition of alkali (diluted caustic soda, ammonia, borax, etc.) to:

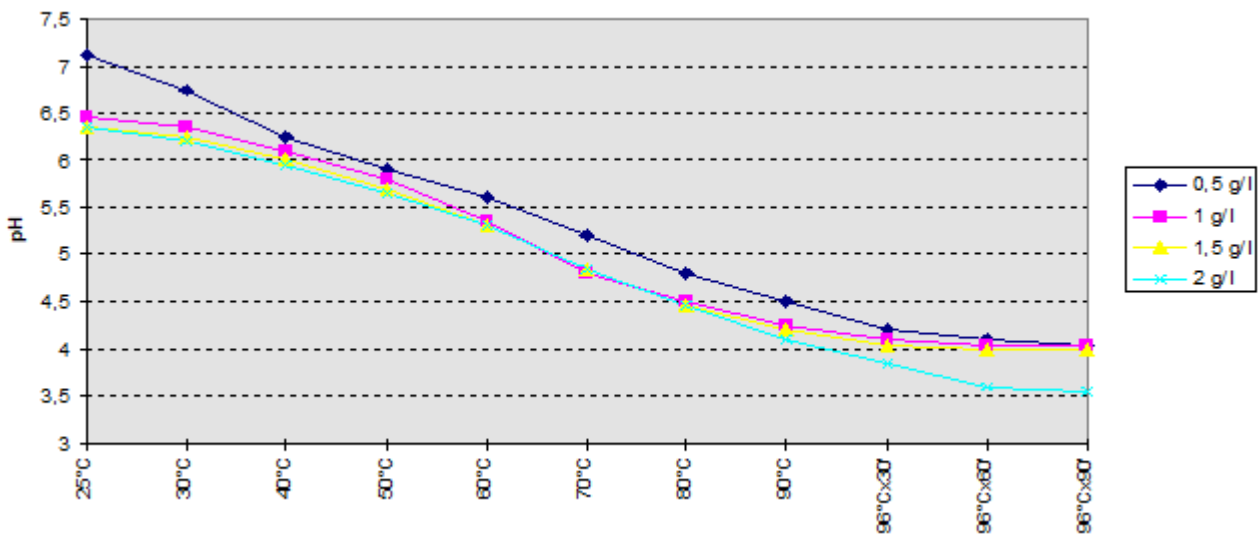
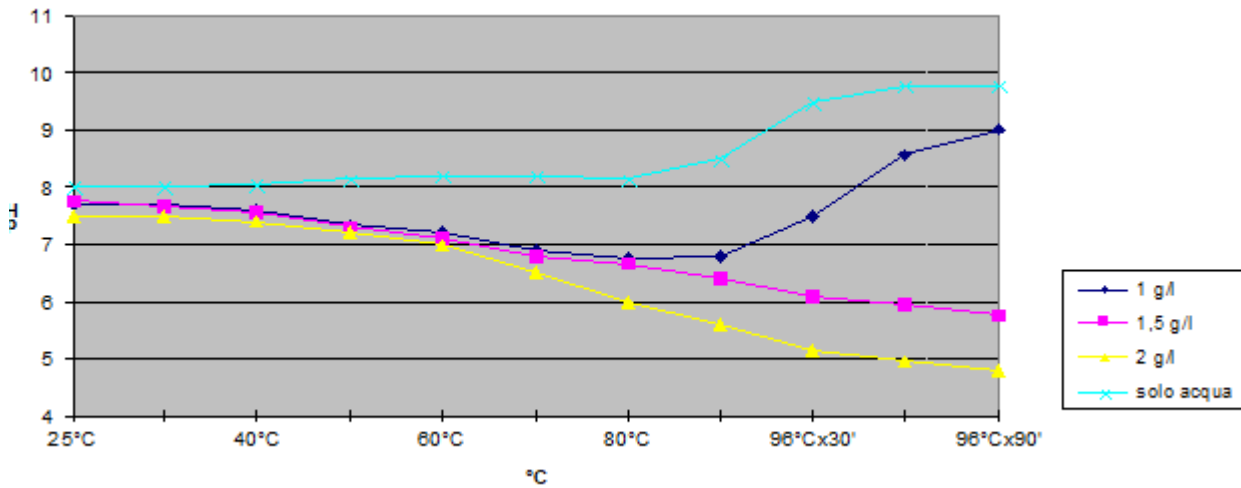
pH 8 - 11 for polyamide fibers

pH 7 - 7.5 for wool

The desired final pH is adjusted by dosages of DONER 121 according to the temperature. The addition is necessary for the lowering in part of the pH in a continuous way, in operation the needs of the dyeing process with pH control. This can be done at the beginning of the heating phase or at boiling temperature after the migration phase in an alkaline environment.

If the addition is made for overflow, the filling height must be as low as possible in order to avoid premature hydrolysis of the product in hot water.

Dosage: 0.5 - 2 g / l DONER 121 depending on the desired final Ph.



The above information is only indicative. Therefore please contact our technicians for assistance and for anything not mentioned in this document, without guarantee