

Digital Dispersed Powder Direct Injection

DGT-D2

Different from other technologies in the textile industry, the requirements for the thickener of dispersing digital direct spraying technology are relatively high. This is because the majority of the market of terylene products are imitation silk products and the products have a higher demand on handling and permeability. However, terylene is water-resistant, and it also needs a certain level of sharpness on the edge of the pattern, which is hard to meet both requirements at the same time. Our product, DGT-D2 thickener meets all the requirements.

Product description and features

Nature : a mixture of organic compounds
Appearance : milky white mixture
Solubility : soluble in cold water
Adaptation : decentralized inkjet printing

Reference Procedure

10% of the raw materials will be padding on the terylene materials, then drying, then jet

Thickener Recipe

Stirring water then slowly put the dry powder into the stirring water. After the addition process is completed, stirring process can be stopped. Stir every two hours for 3 times. (There is no need for rapid mixing, better to use the stirring sticks). Use on the next day.

Suggest to use purified water, if not, you can use tap water. Different water used will cause different effect, client need to do some research and make your own decision.

Reference Process

Padding polyester fabric with above solution --> drying --> dispersed printing --> drying --> solid colour under high temperature --> washing --> drying

Method for solid color under high temperature

1. **A baking method:** You can do it on the fixing roller for transfer printing at 210°C for 1-1.5 minutes
2. **Normal pressure high temperature method:** 180°C for 6 minutes
3. **High-pressure and high-temperature method:** You can do it on the steam cylinder machine at 130°C for 40 minutes

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