



# ITOPROOF BRY

## Technical Data Sheet

### Introduction

Itoproof BRY is a fluorine-free water repellent agent for textiles made of synthetic and cellulosic fibers, especially cotton, polyester and their blends.

### 1. Features

- Itoproof BRY provides a top-quality water repellence for polyester and cotton fabrics and their blends.
- Itoproof BRY is a fluorine-free product.
- Itoproof BRY shows excellent durability to home laundry, as well as dry cleaning.
- Itoproof BRY is compatible with numerous textile auxiliaries, such as cross-linking agents, catalysts, softeners and many others. Users are advised to run their own tests before application.
- Itoproof BRY's performance is affected by residues on textiles at a minimal rate.
- Itoproof BRY does not contain any APEOs (Alkylphenolethoxylates), PFOAs (perfluorooctanic acid) and PFCAs (perfluorocarboxylic acids).
- Itoproof BRY shows high biodegradability due to its chemical build.
- Itoproof BRY is not applicable for oil repellence.
- Itoproof BRY is not flammable.

### 2. Physical/Chemical Properties

<b>Appearance</b>	Milky white liquid
<b>pH (25 °C)</b>	Acidic
<b>Ionic charge</b>	Weakly cationic
<b>Solubility</b>	Easily soluble in water

### 3. Application

Itoproof BRY is applied by padding method. Depending on the fiber type and expected effect, the amount to apply ranges between 30 - 100 g/l. Optimal pH for the finishing liquor should be approximately 4-5.



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## Recommended Usage:

### 100% Cotton

50-100 g/l Itoproof BRY (30-100% wet pickup)

Standard processing conditions:

- Drying at 100-120°C for 1-3 min.
- Curing at 150-170°C for 1-3 min

### PES/Cotton

30-80 g/l Itoproof BRY (30-100% wet pickup)

Standard processing conditions:

- Drying at 100-120°C for 1-3 min.
- Curing at 150-170°C for 1-3 min

### 100% PES

30-80 g/l Itoproof BRY (30-100% wet pickup)

Standard processing conditions:

- Drying at 100-120°C for 1-3 min.
- Curing at 150-170°C for 1-3 min

\* It is recommended to adjust pH between 4-6 during the process.

\*\* In some cases higher curing temperatures have a positive effect on washing fastness of the product.

## 4. Precautions for use

- Itoproof BRY can be stored for at least 6 months at 5°C – 40°C.
- Stir well before use.
- Use under adequate ventilation is recommended. It is not safe to breathe any vapor or mist.
- Wear protective equipment when handling. Avoid direct contact with eyes and skin.
- See the Material Safety Data Sheet for further information about safe use.

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