



ITOGUARD NC6 Liq.

WATER & OIL REPELLANT

Technical Data Sheet

Introduction

ITOGUARD NC6 Liq. is an advanced nonionic fluorinated water/oil repellent agent for textiles made of synthetic and cellulosic fibers, primarily cotton, polyester and their blends.

1. Features

- ITOGUARD NC6 Liq.'s water/oil repellence performance on synthetic and cellulosic textiles is superior to most of its competitors in the market.
- ITOGUARD NC6 Liq. has an enhanced washing durability on various textiles.
- ITOGUARD NC6 Liq. shows excellent compatibility with numerous textile auxiliaries, including but not limited to crosslinking agents, catalysts, softeners, etc. due. Consumers are advised to run tests under their standard conditions before using the product in application.
- ITOGUARD NC6 Liq. does not contain any APEO (Alkylphenoethoxylate), PFOAs (perfluorooctanic acids) and PFCAs (perfluorocarboxylic acids) with longer chains.
- ITOGUARD NC6 Liq.'s performance does not get significantly reduced by residues on textiles.
- ITOGUARD NC6 Liq. is suitable for application on wool and silk.
- ITOGUARD NC6 Liq. is nonflammable.

2. Physical/Chemical Properties

Appearance	Liquid, milky white emulsion
pH (25 °C)	Acidic
Ionic charge	Nonionic
Solubility	Easily soluble in water
Flash Point	100°C
Solid content	30 %

3. Application

ITOGUARD NC6 Liq. should be applied by padding method. Depending on fiber type and the required effectiveness, the recommended amount ranges between 20 - 70 g/l. Optimal pH of the finishing liquor is between 4 – 5,5.



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Recommended Usage:

100% Cotton

35-70 g/l ITOGUARD NC6 Liq. (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

25-60 g/l ITOGUARD NC6 Liq. (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

25-45 g/l ITOGUARD NC6 Liq. (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 shown to improve washing fastness.

*** Addition of Mexa-Cross CL10 has proven to improve washing durability properties of the textile.

4. Precautions for use

- ITOGUARD NC6 Liq. 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.

This technical brochure prepared by MEKSA Company serves the purpose of providing useful information to our customers. MEKSA makes no warranties, expressed or implied, about any results. It is strongly recommended for our customers to run tests under their standard processing conditions before use.