

SENSIL® TOUGHTEX brand

Certification Requirements

NILIT® is a global leader in Nylon 6.6 production and we are focused on delivering high quality products and innovation to our customers around the world. **SENSIL® TOUGHTEX** provides durability, versatility and reliability with high tear and abrasion resistance. **SENSIL® TOUGHTEX** yarn is suitable for activewear, outerwear apparel, denim, shoes, bags, socks, and technical yarns. **SENSIL® TOUGHTEX** yarns are designed for living and built to last providing exceptional resistance to tears, scuffs, and abrasions. Apparel can be made in a variety of weights and constructions, from light weight to heavier yarns, for multiple end-uses.

We have a wide range of performance fibers under the **SENSIL® TOUGHTEX** brand name, check out our website: <https://sensil.com/products/> or call one of the contacts detailed at the bottom of this page.

Using the **SENSIL® TOUGHTEX** brand could not be easier, just follow 3 easy steps:

1. Fabrics developed with **SENSIL® TOUGHTEX** should be submitted for testing using the form on the back of this document to our certification test laboratory.
2. We will confirm in writing the results of the certification testing, and if the fabric meets the Brand Certification Requirements detailed below, a unique reference number will be provided with the approval certificate.
3. The fabric mill can then identify their fabric samples as **SENSIL® TOUGHTEX** and garment manufacturers can request hangtags by quoting the unique fabric approval reference number.

Hangtags requests by garment makers can be made directly on our Internet site: <https://hangtags.nilit.com/>

The following certification standards apply to all fabrics and garments that use the **SENSIL® TOUGHTEX** brand. This permission must be requested for all new articles produced before the **SENSIL® TOUGHTEX** brand is used.

Quality Standards: Garment manufacturers are responsible for garment quality and together with the fabric producers, for ensuring that the products are suitable for their intended end-use. NILIT reserves the right to withdraw the **SENSIL® TOUGHTEX** brand from any fabric or garment that is of inferior quality.

SENSIL® TOUGHTEX quality standards vary by type and intended end use and are detailed below.

Table 1 gives the **SENSIL® TOUGHTEX** yarn performance standards for woven fabrics (excluding motorcycle).

WOVEN yarns	OUTERWEAR	WORKWEAR	READY TO WEAR	DENIM	SHOES	BAGS & ACCESSORIES	TECHNICAL TEXTILES	MILITARY/ HOMELAND SECURITY
SENSIL® TOUGHTEX Qualifying Yarns E in Warp	Any count	Any count	Any count	Min. 180 Dtex AJT				
SENSIL® TOUGHTEX Qualifying Yarns E in Weft			Any count	Min. 180 Dtex AJT				
Qualifying Yarn Content	50%	50%	50%	50%				
Staple yarns allowed								
Abrasion. (modified Martindale)								
Grab Strength	---	---						
Pilling Rating	---	---						

Performance Tests

Abrasion: Modified Martindale (BS EN 530)

Fabrics are mounted on an abrasion machine that rubs multi-directionally for the prescribed number of cycles, or until two threads in either warp or weft have been worn away. The abradant material is P800 silicon carbide, with no weight on the test sample.

Abrasion: Modified Wyzenbeek (TM 1507-90)

Required only for motorcycle-wear. Fabrics are mounted on an abrasion machine that rubs in the warp and weft direction for the prescribed number of cycles, or until both a warp thread and a weft thread have been worn away.

Pilling (BSENISO 12945-1)

For fabrics containing staple yarns. Fabric samples are wrapped around a tube and then placed in a cork lined box where they are tumbled for 10 hours. The samples are then assessed against standard photographs that illustrate pilling ratings. A rating of 5 is excellent and a rating of 1 is poor.

Snagging (TCWM 445)

Required for all knit fabrics. Fabric samples are fitted around a tube and rotated while a spiked mace continually plucks the yarn. Snagging performance is assessed after 300 revolutions. A rating of 5 is excellent and a rating of 1 is poor.

Grab Strength (ASTM D5034)

Fabric samples are mounted in a tensile testing machine and extended until they break.

Tear Strength (ISO 4674-1: Trousers Tear Method)

This test measures the force required to tear a fabric sample along a pre-made cut. The average peak load (in Newtons) between two set points is reported.

Terms and Conditions

“Garment manufacturers are responsible for garment quality and for ensuring, along with the yarn producer, that the yarn is suitable for the intended end use.

“**SENSIL®** may refuse the use of the **SENSIL® TOUGHTEX** brand for low quality fabrics and garments.

“Hangtags, stickers, and all other forms of **SENSIL® TOUGHTEX** logo usage can be requested via internet site through the contacts below. Details of the legal requirements of trademark usage are given on this Internet site. Unauthorized usage of the **SENSIL® TOUGHTEX** brand is subject to prosecution.

Disclaimer

This Brand Requirement Certification document contains only selected data and further information on our Internet site should be carefully read. Customers using **SENSIL®** products are responsible for ensuring that it is suitable for the intended end use. Full information via www.NILIT.com.

Contacts

Headquarters: NILIT LTD Maurizio Levi Rd. Ramat Gabriel, P. O. Box 276, Migdal Haemek, 210201 ISRAEL Tel: +972-4-654-4506 Fax: +972-4-654449

Branding Lab: Ilan Ben Akiva . e-mail: ilanb@NILIT.com

Hangtags: Sigalit Nachmani . e-mail: sigalitn@NILIT.com

SENSIL® TOUGHTEX yarn Branding Submission Form

This brand submission form must be **completed, signed**, and sent, along with the required fabric samples to the address below. If the fabric meets the required certification standard, an approval certificate with a unique fabric reference number will be sent to you.

Suggestion: Fill in this PDF form on your computer, print and save for future reference.

Fabric Supplier Details:

Fabric Manufacturer Details: Trade Name: _____ Address _____ _____ _____ Country _____ Contact Name _____ Telephone _____ E-mail _____	Company name (if not the fabric manufacturer): _____ Address _____ _____ _____ Country _____ Contact Name _____ Telephone _____ E-mail _____
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Fabric Details:

Your fabric reference name/quality number _____

Is this the first time this fabric has been submitted for branding? Yes No

Fabric type (please tick): Circular Knit Seamless Woven Warp Knit Flap Knit Ends/Centimetre

Warp (wales) _____ Weft (Courses) _____

Amount of coating _____ gm/sq.m Finished fabric width _____ cms

Greige fabric weight _____ gms/sq.m Finished fabric weight _____ gms/sq

Yarn details

Each Yarn in the yarn	Yarn Details:	SENSIL® TOUGHTEX Yarn
SENSIL® TOUGHTEX yarn Brand Qualifer 1		
SENSIL® TOUGHTEX yarn Brand Qualifer 2		
Other yarn 1		
Other yarn 2		
Other yarn 3		

SENSIL® Toughtex sustainable solutions (please mark):

- SENSIL® TOUGHTEX ByNature
- SENSIL® TOUGHTEX EcoCare
- SENSIL® TOUGHTEX WaterCare

SENSIL® TOUGHTEX end-use (please mark)

- | | |
|---------------|-----------------------------------|
| Outerwear | Military/Homeland Security |
| Workwear | Technical textiles |
| Ready to Wear | Motorcycle suits & reinforcements |
| Denim | Knit fabrics |
| Shoes | Bags and Accessories |

Your signature _____ Date _____

Your signature is essential and by signing the request for brand certification, the signatory is legally bound by the Terms & Conditions of the SENSIL® Toughtex branding scheme (further details on the NILIT Internet site

<https://www.nilit.com/hangtags/>

Send this completed form together with two sock samples or with two meters of full width, finished fabric, and half a meter of uncoated fabric to:

SENSIL Branding

NILIT Ltd., Maurizio Levi Rd., Ramat Gabriel, Migdal Haemek, 2310201

ISRAEL Contact: Mr. Ilan Ben Akiva, tel. 972-4-6544450 fax 972-4-6544449

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