

TECHNICAL FILE / SELECTED HIGHEST RESULTS

SGS Reports

Test Results Compilation

NEFFERTINI collection - consolidated technical results profile.

Document field	Details
Compilation reference	NF-TS-2026-001 / v1.2 / English
Compilation date	13 October 2026
Testing organisation	SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.
Source reports	TR2852016-IR2 / 10 September 2026; TR2871704-IR1 / 9 October 2026
Additional source	SGS results communication / 9 October 2026 / reference 2852016
Presentation basis	One selected result per test: highest documented result within the retained test methods and conditions.

Selected results at a glance

Test	Selected result	Source
Martindale abrasion	>50,000 cycles at 9 kPa	R1, p.4
Light fastness	Grade 6 requirement met	R2, pp.4-5
Water repellency (spray)	85 spray rating / AATCC 22	R1, p.7
Chlorinated-water colour fastness	4-5 at 20 mg/L	R2, pp.3-4
Sea-water colour fastness	4-5	R2, pp.5-6
Rubbing colour fastness	Dry: 4-5 / Wet: 4-5	R1, p.12
Washing colour fastness	ISO: 4-5 / AATCC: 4.5	R1, pp.13-14
Perspiration colour fastness	Acid and alkaline: 4-5	R1, p.11
Pilling and fuzzing	ISO: 4-5 / ASTM: 4.5 at 7,000 cycles	S1
Antibacterial activity	ISO activity: 4.8 and 5.0 / Strong; AATCC reported reduction: 99.99%	R1, pp.15-24

Selection basis: This profile combines the highest documented results from the source records. It is not the complete test history of a single physical specimen. Collection-wide use is based on the NEFFERTINI product owner's scope confirmation.

Document status: A compilation prepared for NEFFERTINI, not a newly issued SGS report or certificate. Selected individual findings are retained; stated acceptance requirements are distinguished from numerical ratings. The source reports' overall conclusions remain FAIL.

01 / Durability and care

Martindale abrasion resistance

Method: BS EN ISO 12947-2:2016

Source: R1 / page 4

Parameter	Selected result / condition
Applied pressure / support	9 kPa / foam used
Reported endpoint	>50,000 cycles
Endpoint observation	No fabric breakdown endpoint observed
Client requirement / decision	50,000 cycles / Meets requirement

Abrasion resistance is reported under the stated laboratory conditions; it does not establish a service-life guarantee.

Rubbing and perspiration colour fastness

Method: ISO 105-X12:2016; ISO 105-E04:2013

Source: R1 / pages 11-12

Assessment	Selected result	Requirement / decision
Dry rubbing / staining	4-5	4-5 / Meets
Wet rubbing / staining	4-5	3-4 / Meets
Acid perspiration / colour change and staining	4-5	4-5 / Meets
Alkaline perspiration / colour change and staining	4-5	4-5 / Meets

Washing colour fastness

Method: ISO 105-C06:2010; AATCC 61:2013e(2020)

Source: R1 / pages 13-14

Method / condition	Selected result	Requirement / decision
ISO 105-C06 / 40 °C, A2S	4-5	4-5 / Meets
AATCC 61 / test 2A	4.5	4.5 / Meets

Ratings cover colour change, cross staining and the listed multifibre staining assessments. Colour fastness does not establish dimensional stability.

Pilling and fuzzing

Method: ISO 12945-2:2020; ISO 12945-4:2020 assessment; ASTM D4970/D4970M-2022

Source: S1 / SGS results communication, 9 October 2026 / reference 2852016

Method / exposure	Pilling	Fuzzing
ISO / 5,000 cycles	4-5	4-5
ISO / 7,000 cycles	4-5	4-5
ASTM / 5,000 cycles	4.5	4.5
ASTM / 7,000 cycles	4.5	4.5

No client acceptance threshold is stated in the result images. The ISO ratings are numerically consistent with the NEFFERTINI target of at least 4. Pilling results are traceable to S1 and are not presented as an added signed section of R1 or R2.

02 / Light and water colour fastness

Light fastness / selected collection value

Method: ISO 105-B02:2014 (modified method)

Source: R2 / pages 4-5

Parameter	Selected result / condition
Selected light-fastness value	6 / Grade 6 client requirement met
Instrument	Atlas Xenotest S220
Exposure conditions	A1 / no flip-flop mode
Result notation in source	6-0 for all assessed printed colour components
Source decision	Meets client requirement

The selected Grade 6 value follows the latest report. The earlier example design excluded from the collection is not used to determine this value. The original "6-0" notation is preserved for source traceability.

Colour fastness to chlorinated water

Method: ISO 105-E03:2010

Source: R2 / pages 3-4

Assessment	Selected result	Requirement / decision
Test concentration	20 mg/L	Stated test condition
Colour change	4-5	4 / Meets
Cross staining	4-5	4 / Meets

Colour fastness to sea water

Method: ISO 105-E02:2013

Source: R2 / pages 5-6

Assessment	Selected result	Requirement / decision
Colour change	4-5	4 / Meets
Cross staining	4-5	4-5 / Meets
Staining on multifibre strip	4-5 on every listed fibre	4 / Meets

Listed multifibres: acetate, cotton, nylon, polyester, acrylic and wool.

Scope of interpretation

These results describe colour fastness under the specified methods and exposures. They do not establish complete marine-use approval or long-term artificial-weathering performance. The later-duration light exposures recorded as continuing in the source documents are not included as completed results.

03 / Water repellency

Water repellency / spray test

Method: AATCC 22:2024
Source: R1 / page 7

Parameter	Selected result / source condition
Selected spray rating	85
Condition as recorded by SGS	As Received (After 20 Wash)
Client acceptance threshold	No requirement stated
Decision	Numerical rating reported; no pass/fail threshold specified

The value 85 is a spray rating, not 85% water repellency. The source pretreatment heading is retained as reported; the compilation does not independently establish the wash protocol or retention through a consumer care programme.

Surface water repellency does not establish waterproofness. The initial ISO 4920 result is outside this selected compilation.

04 / Antibacterial activity and sources

Antibacterial activity / absorption method

Method: ISO 20743:2021

Source: R1 / pages 15-20

Test microorganism	Selected activity value	Source classification
Staphylococcus aureus / ATCC 6538	4.8	Strong / Pass
Klebsiella pneumoniae / ATCC 4352	5.0	Strong / Pass

The source classifies activity values of at least 3 as strong. Results apply to original, unwashed material and the specified laboratory organisms.

Antibacterial evaluation / 24-hour contact

Method: AATCC 100:2019

Source: R1 / pages 21-24

Test microorganism	Selected reported reduction	Requirement / decision
Staphylococcus aureus / ATCC 6538	99.99%	99% / Meets
Klebsiella pneumoniae / ATCC 4352	99.99%	99% / Meets

Percentages are transcribed as reported by SGS and have not been independently recalculated in this compilation. No post-wash antibacterial retention is established by these original-state tests.

Source register

Code	Source document	Retained test references
R1	SGS TR2852016-IR2 10 September 2026 / 26 pages	Abrasion p.4; spray water repellency p.7; perspiration p.11; rubbing p.12; washing pp.13-14; antibacterial pp.15-24.
R2	SGS TR2871704-IR1 9 October 2026 / 6 pages	Chlorinated-water colour fastness pp.3-4; light fastness pp.4-5; sea-water colour fastness pp.5-6.
S1	SGS results communication 9 October 2026 / reference 2852016	Six result images covering ISO and ASTM pilling and fuzzing assessments.

Compilation scope and traceability

One selected result column is used throughout. Each value is the highest documented result for the listed assessment, without combining rating systems or converting a 4-5 grade into 5. Different assessments may draw on different source specimens.

Collection-wide use, irrespective of pattern, follows the NEFFERTINI product owner's confirmation of 13 October 2026. This product scope confirmation is distinct from the laboratory's tested-item scope. Original documents remain the authoritative records.

The source reports have overall FAIL conclusions; this compilation presents selected test-level results, with acceptance requirements stated separately from numerical ratings. The SGS logo identifies the source testing organisation. This compilation is prepared for NEFFERTINI and does not replace the original reports.