

Technical Data Sheet

TEXCARE® SRA 300F

CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 Muttenz
SwitzerlandBUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIESwww.ics.clariant.com
www.clariant.com

Annionic Soil Release Polyester for household and industrial products

Composition	Anionic modified polyester
--------------------	----------------------------

Product properties ¹

Appearance	Granules
Colour	White to beige
Odour	Product specific
Active substance	Approx. 100 %
pH (20°C, 10 g/l)	Approx. 4.5
Particle size	100 – 1600 µm
Bulk density	Approx. 650 g/l

Profile

TexCare® SRA 300F is an anionic soil release polyester which was developed specifically for detergent powder applications. Due to its anionic character, TexCare® SRA 300F exhibits a broad tolerance to the most common surfactant systems.

¹ These characteristics are for guidance only and not to be taken as product specifications. The tolerances are given in the product specification sheet. For further product properties, specifications, safety and ecological data, please refer to the MSDS.

Soil Release Effect

Fabrics made from polyester and polyester/cotton can be difficult to clean when they are soiled with oily or fatty stains. Such stains adhere strongly to the hydrophobic synthetic fibres, which are then only poorly wetted by the washing liquor.

If these fabrics are washed with a detergent containing a soil release polymer from the TexCare® series, e.g. TexCare® SRA 300F, the polyester is adsorbed onto the hydrophobic fibres and forms a hydrophilic film. This prevents the soil from adhering directly to the fibres. Furthermore, the affinity of hydrophobic soils for the hydrophilic film is reduced significantly compared to the untreated fibres. This makes it much easier to remove oily stains from the fabric during subsequent washing.

TexCare® SRA 300F has been developed specifically for use in highly anionic systems to guarantee best performance. The great physical stability and the broad performance profile are unique and make the new anionic TexCare® SRA 300F superior to non-ionic types in the market.

The soil release effect was tested on polyester and polycotton fabrics using sebum/carbon black as a model soil.

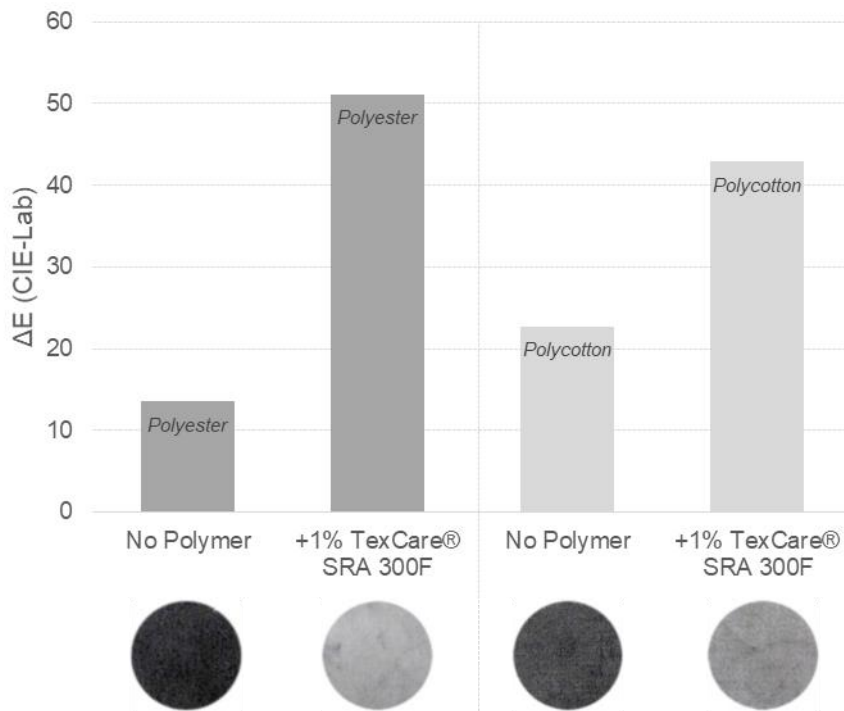
Polyester and polycotton swatches (WFK 30A and WFK 20A respectively) were pre-washed with a powder detergent containing either no soil release polymer or 1% TexCare® SRA 300F. The swatches were stained with sebum containing 0.5% carbon black, allowed to dry overnight and washed again without polymer. The results of a colorimetric evaluation and the appearance of the swatches are shown in Fig. 1.

CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 MuttENZ
Switzerland

BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com



CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 Muttenz
Switzerland

BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com

Fig. 1: Improvement of soil removal using TexCare® SRA 300F on polyester WFK 30A and polycotton WFK 20A. DMO, Linitest, 40°C, 30 min, 2 g/l powder detergent

Primary Detergency

A further benefit of TexCare® SRA 300F is the improvement of primary detergency on oily soils. Even without a first prewash of the fabric to give it a soil release finish, soil is removed better from polyester and polyester/cotton.

Fig. 2 shows the results of washing soiled polyester/cotton swatches WFK 20 D (synthetic sebum) at 25°C with a powder detergent containing 1% TexCare® SRA 300F.

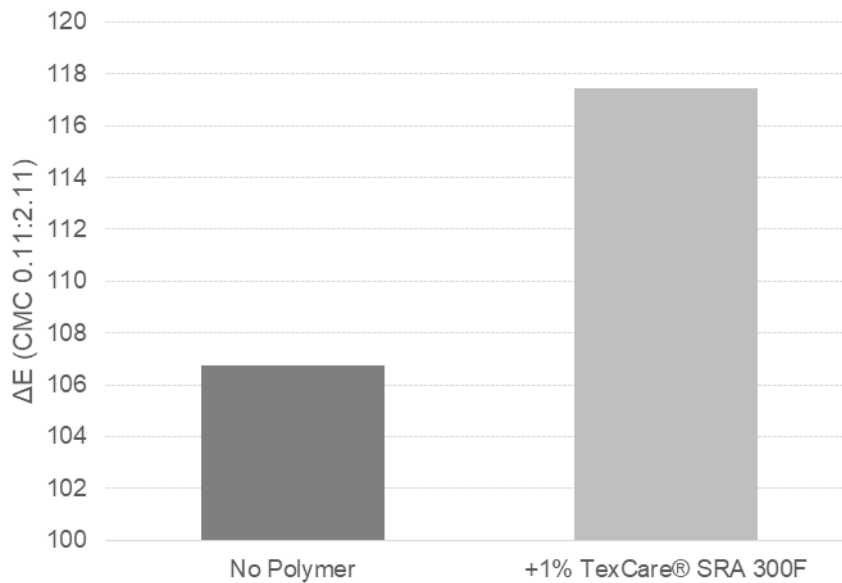


Fig. 2: Improvement of primary detergency using TexCare® SRA 300F on polyester/cotton WFK 20D. Pigment/sebum, Tergotometer, 25°C, 30 min, 1.8 g/l powder detergent

CLARIANT INTERNATIONAL LTD

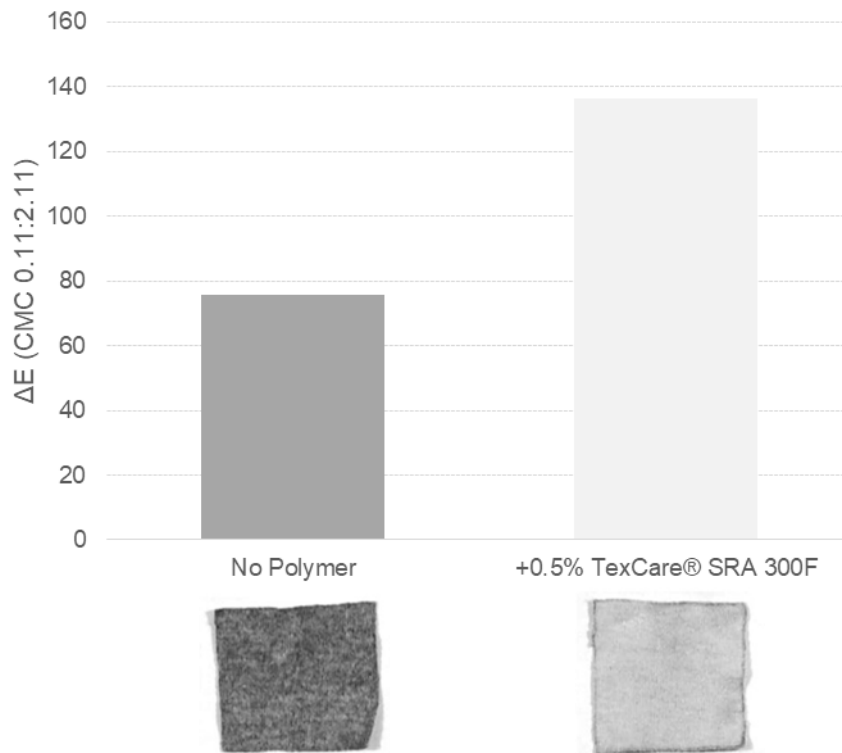
Rothausstrasse 61
4132 Muttenz
Switzerland

BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com

Anti-Redeposition

Lime soap and various soils present in the washing liquor need to be dispersed in order to avoid redeposition onto the fabrics present. A detergent which poorly fulfills this requirement will lead to greying of the washed garments. Due to its amphiphilic structure, TexCare® SRA 300F can effectively aid in the dispersion of this soil and prevents redeposition through repelling soil from the now anionic polyester fabric surface. This is particularly apparent after subsequent washes, as shown in Fig. 3.



CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 Muttenz
Switzerland

BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com

Fig. 3: Improvement of anti-redeposition with TexCare® SRA 300F on polyester/cotton washed with 1 g/l premium powder detergent containing 0.5% soil release polymer and additionally 0.15 g/L olive oil-carbon black soil.

Hydrophilization

Wear comfort of clothes is a very important topic for consumers. Compared to hydrophilic cotton fabrics, vapour cannot pass through hydrophobic standard polyester fabrics, which leads to an unpleasant wear comfort. By deposition of TexCare® SRA 300F, water absorption of the dried fabric increases strongly.

Recommended Applications

TexCare® SRA 300F can be used in all kind of powder detergent formulations, e.g. heavy duty-, color and fine fabric detergents, bleach boosters or bar soaps.

Storage

TexCare® SRA 300F can be stored for at least 2 years in original sealed containers at room temperature up to 40°C. The product does not undergo any change if not exposed to moisture or alkalinity. Before use, please inspect packaging for damage; exposure to wet or humid conditions can lead to clump formation which may cause difficulties in processing and may require additional grinding.

CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 Muttenz
Switzerland

BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application.* Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact

*** For sales to customers located within the United States and Canada the following applies in addition:**
NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE.

Trademark at introductory stage
© 2018 Clariant International Ltd,
Rothausstrasse 61, 4132 Muttenz, Switzerland



CLARIANT INTERNATIONAL LTD

Rothausstrasse 61
4132 Muttenz
Switzerland

BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

www.ics.clariant.com
www.clariant.com