



Enriching lives through innovation

Headquarters

Huntsman (Singapore) Pte Ltd
Textile Effects Division
152 Beach Road
#29-00 Gateway East
Singapore 189721
Telephone +65 6297 3363
Fax +65 6298 0037
pr@huntsman.com

Europe Region

Huntsman Advanced Materials
(Switzerland) GmbH, Textile Effects
Klybeckstrasse 200
4057 Basel, Switzerland
Telephone +41 61 299 11 11
Fax +41 61 299 11 12
pr@huntsman.com

Americas Region

Huntsman International LLC
Textile Effects
3400 Westinghouse Blvd,
Charlotte, NC 28273, USA
Telephone +1 704-587-5000
Fax +1 704-587-5020
pr@huntsman.com

Asia Region

Huntsman Textile Effects
(China) Co. Ltd.
Flying Geese Mountain Industrial Park
Shilou Town, Panyu District, Guangzhou
511447, PR China
Telephone +86 20 3937 7000
Fax +86 20 8484 5222
pr@huntsman.com

Edition 2020

© Copyright 2020. Huntsman Corporation or an affiliate thereof. All rights reserved. Unless indicated otherwise, all trademarks mentioned are trademarks of Huntsman Corporation or an affiliate thereof. AVITERA® and HIGH IQ® are registered trademarks of Huntsman Corporation or an affiliate thereof in one or more, but not all countries.

bluesign® is a registered trademark of Bluesign Technologies AG.

Chemical products carrying the bluesign® approved label meet the strict ecological and toxicological requirements of the bluesign® criteria. Properly applied they allow the production of bluesign® approved textiles and accessories with a minimum impact on people and the environment. For more information visit www.bluesign.com

OEKO-TEX® is a registered trademark of OEKO-TEX® Association.

(1) Standard 100 by OEKO-TEX®, Edition 02/2020 at 22nd January 2020. Standard 100 by OEKO-TEX® refers to ready goods only. Therefore, we only confirm that the products listed can be used for textiles which (when used as recommended) will comply with the requirements of Standard 100 by OEKO-TEX® version 02/2020

DISCLAIMER:

Except where explicitly agreed otherwise, the sale of products referred to in this publication ("Product") is subject to the general terms and conditions of sale of Huntsman International LLC or its affiliated companies.

While the information and recommendations included in this publication are, to the best of Huntsman's knowledge, accurate as of the date of publication, NOTHING CONTAINED HEREIN (EXCEPT AS SET FORTH ABOVE REGARDING CONFORMANCE WITH SPECIFICATIONS PROVIDED TO BUYER BY HUNTSMAN) IS TO BE CONSTRUED AS A REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS, OR WARRANTIES AS TO QUALITY OR CORRESPONDENCE WITH PRIOR DESCRIPTION OR SAMPLE, AND THE BUYER ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE OF SUCH PRODUCT, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER SUBSTANCES.

No statements or recommendations made herein are to be construed as a representation about the suitability of any Product for the particular application of Buyer or user or as an inducement to infringe any patent or other intellectual property right. Buyer is responsible to determine the applicability of such information and recommendations and the suitability of any Product for its own particular purpose, and to ensure that its intended use of the Product does not infringe any intellectual property rights.

The Product may be or become hazardous. The Buyer should obtain Material Safety Data Sheets and Technical Data Sheets from Huntsman containing detailed information on Product hazards and toxicity, together with proper shipping, handling and storage procedures for the Product, and should comply with all applicable governmental laws, regulations and standards relating to the handling, use, storage, distribution and disposal of, and exposure to the Product. Buyer shall also take all steps necessary to adequately inform, warn and familiarize its employees, agents, direct and indirect customers and contractors who may handle or be exposed to the Product of all hazards pertaining to and proper procedures for safe handling, use, storage, transportation and disposal of and exposure to the Product, and the containers or equipment in which the Product may be handled, shipped or stored.

Please note that Products may differ from country to country. If you have any queries, kindly contact your local Huntsman representative.

Huntsman is a member of:



Enriching lives through innovation



High IQ®
lasting
black
eco

Lasting black
for good

Powered by
AVITERA® SE Dyes



Sustainability
Innovation
Collaboration

Lasting black for good

High IQ®
Lasting Black **eco**
Performance Assurance

- Lasting Black **eco** is a quality assurance scheme based on home laundry tests combined with Huntsman's award winning AVITERA® SE dyes
- Reduces water and energy consumption by up to 50% without compromising color retention performance of the garment
- Reduced risk of color staining other garments during washing
- Suitable for EU and US home laundering programs



Durable performance



Colors won't wash out or fade



Longer lasting garments



Produced with less water and energy

Lasting performance for good

The **HIGH IQ® Lasting Black eco** color retention program delivers excellent value through color performance. Garments retain their vibrant color even after repeated washing, thanks to specially selected AVITERA® SE Black dyes.

Key Benefits

- Reduced environmental footprint by using 50% less water and energy in processing
- Black shades stay rich and don't fade away
- Black shades retain their intensity during the lifetime of the garment
- Black shades stay deep and vibrant, looking newer for longer
- Longer lasting performance, wash after wash
- Allow mills to produce fabrics/ garments free* from p-chloroaniline (PCA)
- bluesign® approved and suitable for STANDARD 100 by OEKO-TEX® certified textile products⁽¹⁾

*Current detection limit 5 ppm

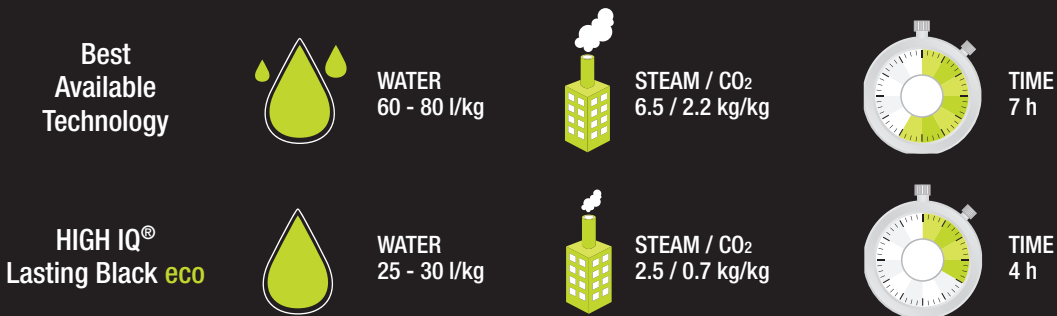
Unparalleled performance

Oxidative bleach ISO 105-C09 (3 cycles)	Chlorine Fastness ISO 105-E03, 150 ppm	Multiple HL Performance (30 cycles)
<p>Lasting Black eco</p> <p>Rating: 4</p>	<p>Lasting Black eco</p> <p>Rating: 4</p>	<p>Lasting Black eco</p> <p>Rating: 4</p>
<p>Conventional</p> <p>Rating: 2-3</p>	<p>Conventional</p> <p>Rating: 1-2</p>	<p>Conventional</p> <p>Rating: 3</p>

Lasting sustainability for good

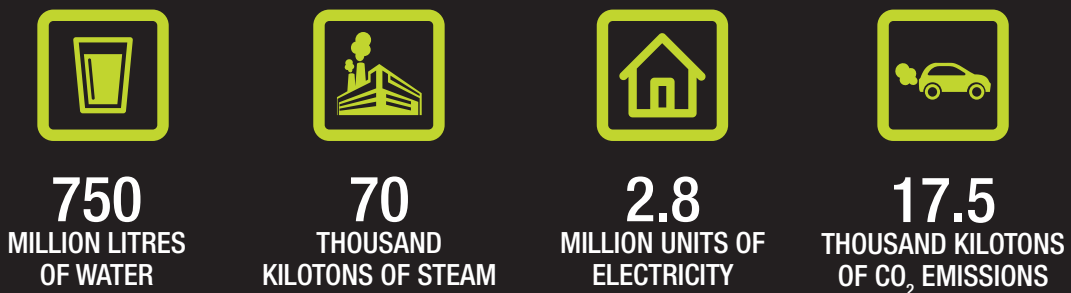
Combines the only leading color retention program with Huntsman's award winning AVITERA® Black SE reactive dye. AVITERA® Black SE dye provides economical and environmental sustainability by reducing water and energy consumption up to 50%. Excellent washing-off performance of AVITERA® SE Black dye shortens processing time and increase productivity.

Typical water, energy and time savings during production*



*Figures may vary from mill to mill

If 100 million T-shirts are produced with the HIGH IQ® Lasting Black eco program, you can save:



Lasting black for good Benchmark performance

After 30 washes

Conventional dyes

The HIGH IQ® Lasting Black eco performance assurance program fulfills consumers' needs for garments to retain their new, attractive look for much longer.