

Achieve o2, a Leader in New Technologies,  
is Proud to Introduce:



A New Breakthrough in Textile Technology



CELLIANT™

ENHANCE YOUR LIFE.

CLINICALLY PROVEN TO  
INCREASE OXYGEN AND  
REDUCE PAIN



DRY  
energy

dri-release®

MICROBLENDED PERFORMANCE FABRIC

by OPTIMER

with

FRESHGUARD®

BY OPTIMER

FOR SUPERIOR MOISTURE  
MANAGEMENT AND  
ODOR CONTROL

# What is celliant?

Celliant is a patented formulation of specifically selected materials that are refined into micron-sized particles and imbedded into the fiber during extrusion. The Celliant particles become a permanent part of the fiber.

Celliant non-invasively promotes overall wellness



# What does Celliant DO?

Celliant is:

- Clinically proven to reduce pain
- Clinically proven to increase oxygen levels in the body

Increased oxygen aids in:

Muscle recovery and faster healing  
Increasing strength, energy and endurance  
Heightening athletic performance  
Reducing swelling and fatigue  
Enhancing comfort and well-being  
Balancing body temperature  
Improving sleep quality



# Clinical Trials

## Trial 1 Objective

Measure the ability of Celliant to increase transcutaneous oxygen levels in the body on a challenged population

Conducted in 2003 by Dr. L Lavery DPM,MPH, Associate Professor in the department of orthopedic surgery and rehabilitation at Loyola University Medical Center in Chicago in conjunction with the Hines Veterans Memorial Hospital.

Results 8% to 12% increase in oxygen levels

“Compelling and Significant”

## Facts

- Double blind study
- All participants had a history of vascular disease and diabetes
- Results were statistically significant



# Clinical Trials

## Trial 2 Objective:

Measure the ability of Celliant to increase transcutaneous oxygen levels on a healthy population

Conducted in 2005 by DR. Graham McClue, PH.D, a researcher with Hyperbaric Treatment and Straining Services LTD

Results 10% to 24% increase in oxygen Levels

## Facts

Double blind study

All participants were healthy men and women

Statistically significant results



# Clinical Trial

## Trial 3 Objective:

Determine the ability of Celliant to relieve pain

Conducted in 2008 by Dr. Ian Gordon M.D.,PHD,  
UCI Medical Center in conjunction with the UC Irvine Medical Center

Detailed results of this clinical trial were published on April 20, 2009 by BioMed Central and results of the full article can be found in the BMC Journal of Complementary and Alternative Medicine. You may access the study at the following URL:  
<http://www.biomedcentral.com/1472-6882/9/10/abstract>

Results: Celliant reduces pain

Facts:

Double blind study

Large population

Statistically significant positive results



# SLEEP STUDY

Objective:

Measure the effects of Celliant to increase oxygen levels and regulate body temperature using Celliant mattress pads

This study was conducted in 2007

The overview of the results:

Celliant had a positive measurable impact on both increased oxygen levels and body temperature.

**Increase in oxygen, better body temperature and decrease of pain is known to improve quality of sleep**



**CELLIANT™**

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# Benefits of Celliant

Three Clinical Trials have proven that Celliant:  
Reduces Pain  
and  
Increases Oxygen levels in the body

:

View Celliant Video with interviews with Dr. L. Lavery, DPM, MPH; Dr. Graham McClue, PH.D; Dr. Ian Gordan M.D., PHD

<http://www.celliant.com/video>



# Celliant oxygen increase



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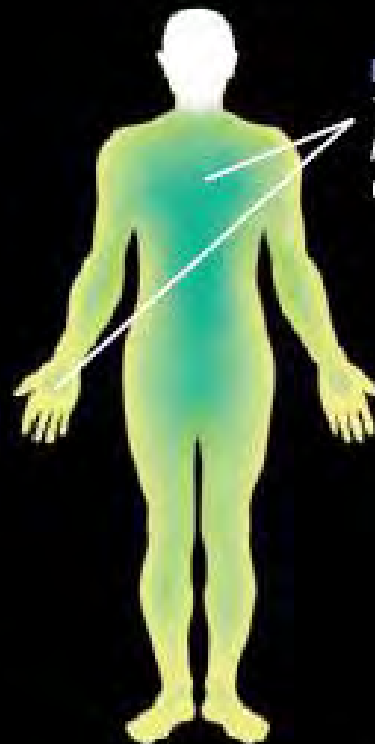
## Effects of Celliant on oxygen levels in the body

OXYGEN  
LEVEL  
RANGE



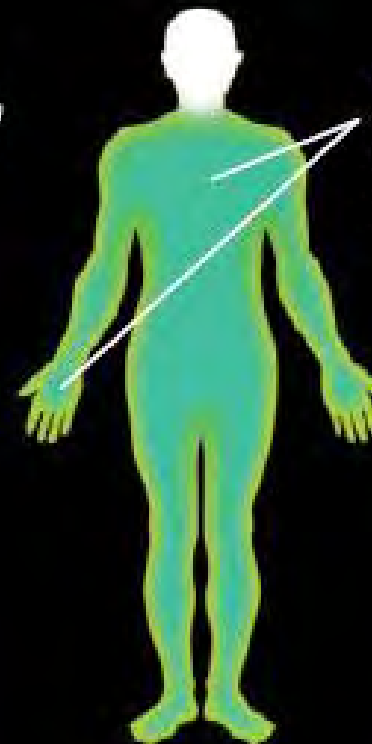
Higher

Lower



**BEFORE**

*Typical oxygen  
levels without  
Celliant.*



**AFTER**

*Increased  
oxygen  
levels with  
Celliant.*

In clinical testing, Celliant has been proven to increase oxygen levels in the body—which is widely recognized to aid in comfort, healing and recovery.

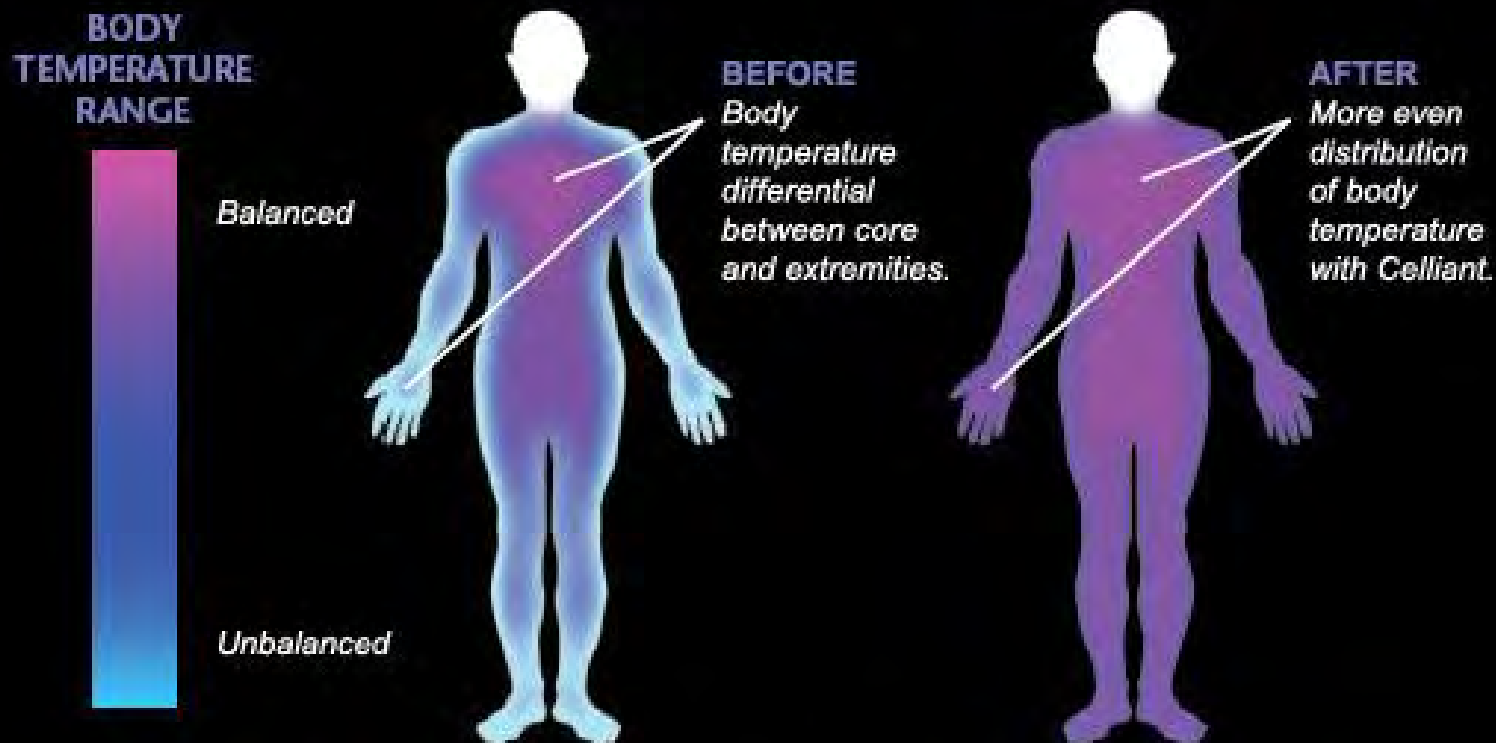
# Celliant Temperature



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## Effects of Celliant on temperature levels in the body



Celliant has been proven in clinical testing to help regulate body temperature. With Celliant your hands and feet maintain more comfortable temperature levels.

# Celliant Applications

- Socks - Medical and Performance
- Apparel
- Pillows
- Mattress pads and ticking
- Shoe linings
- Medical wraps and associated products
- Insoles
- Bed sheets
- Equestrian and pet products
- Insole top covers and pads



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# Holofiber/Celliant Press

AS SEEN ON OPRAH!



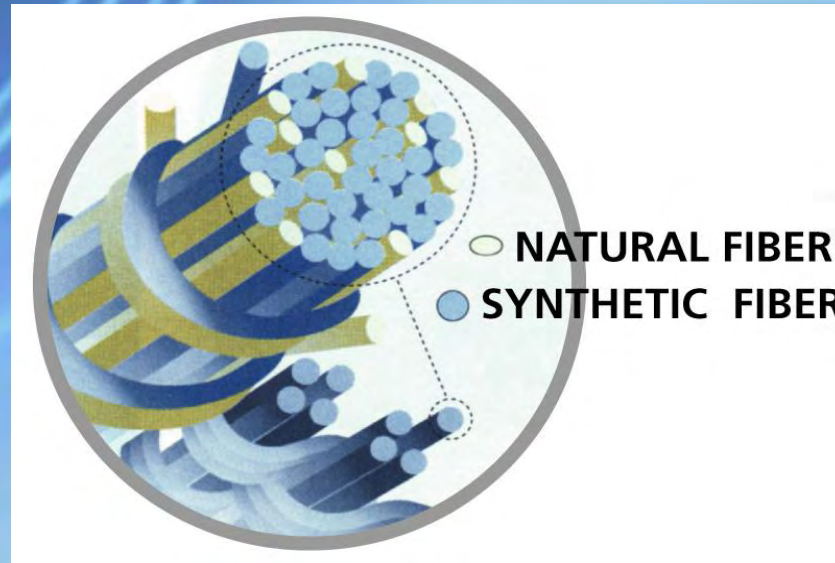
As Seen on NBC-TV's TODAY Show



# Features & Benefits

- **Engineered, Permanent Performance**
- **Moves Moisture & Dries Quickly**
- **Less Time In Dryer = Measurable Energy Conservation**
- **Enhances Body Comfort**
- **Soft, Natural Fiber Hand**
- **Easy Care -Low Maintenance Apparel**
- **Functional and Fashionable**

# A Hand Like No Other



Natural Fibers Provide a Natural Feel



## **Features & Benefits**

**Odor Neutralizer System**

**Built into Yarn – Not a Topical Treatment**

**Fabrics Do Not Retain Body Odor**

**Maintains Skin's Natural Balance**

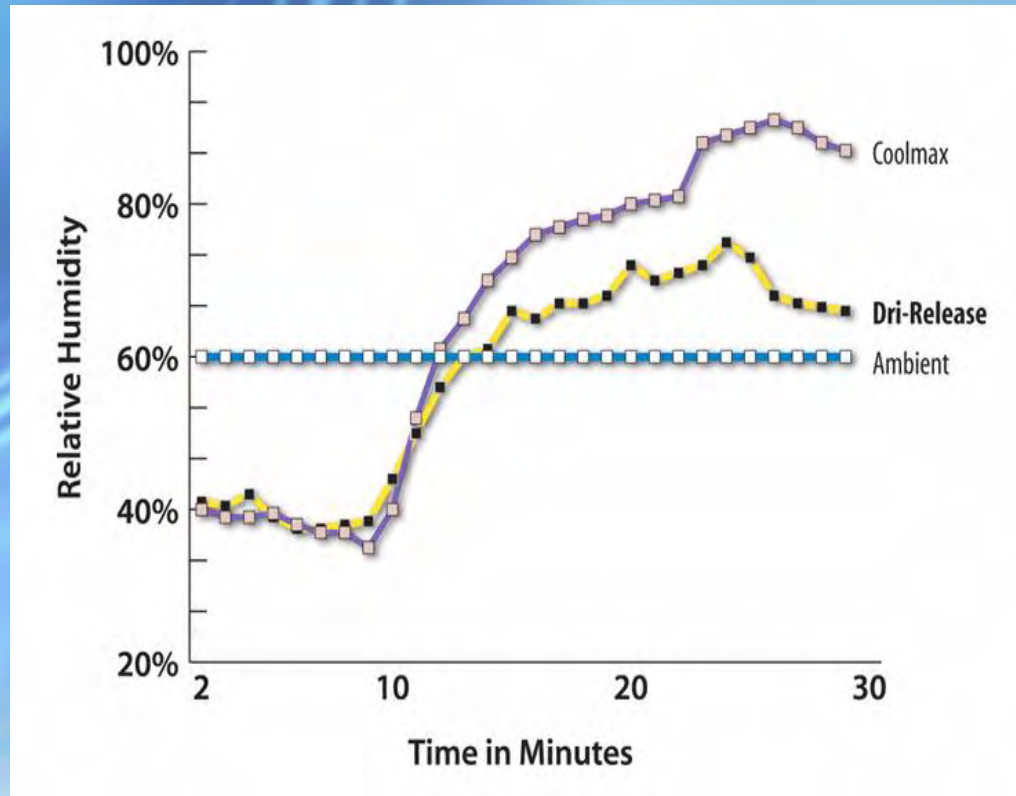
**Eco-Friendly**



## What is FreshGuard®?

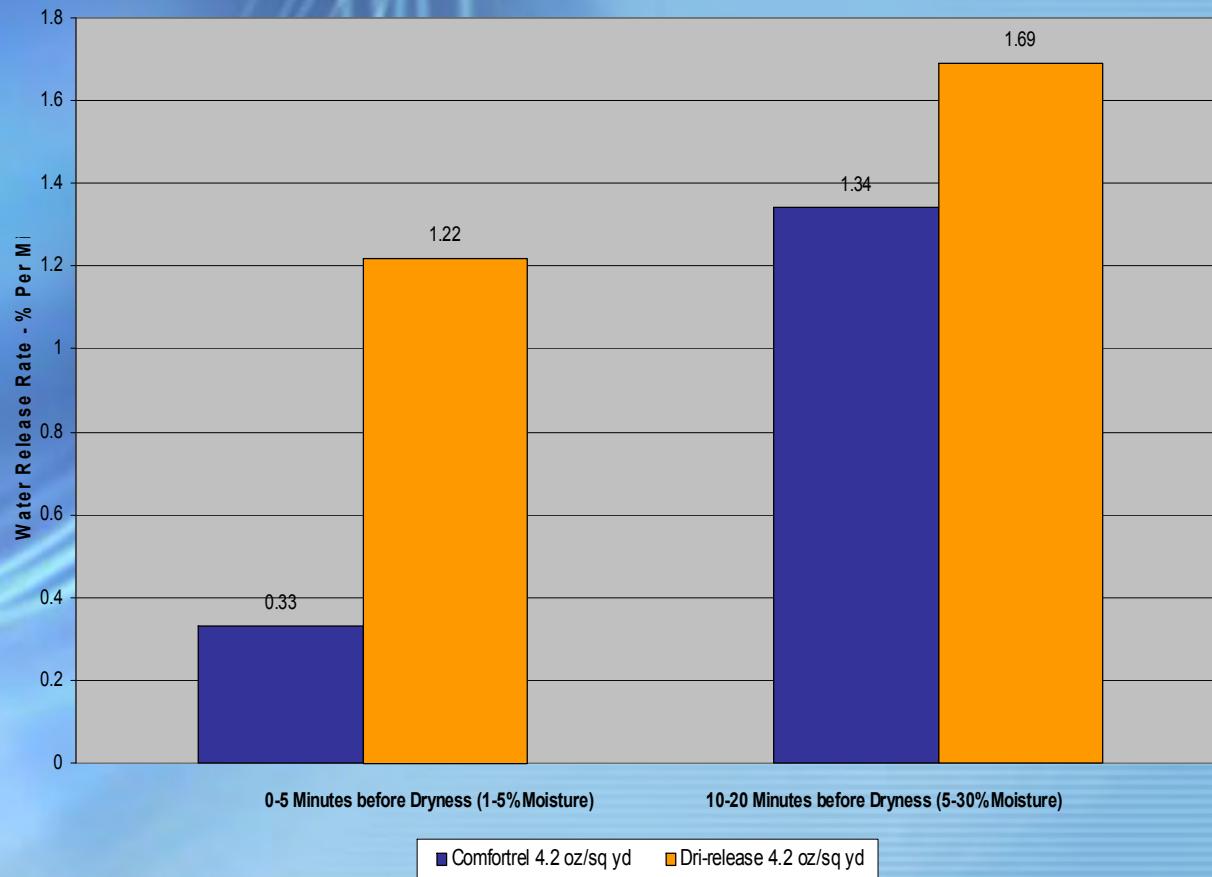
- FreshGuard is an odor neutralizer that does not allow oily odor bodies to attach themselves to a garment's fabric.
- FreshGuard is not an anti-microbial or a bactericide, which kill bacteria, even those that possess positive functions. It is a bacteria-stat, which limits the growth and production of odor bodies by bacteria.
- FreshGuard is not a topical finish. It is a system that is built directly into the yarn in the Dri-release® fabric. FreshGuard inhibits the the environment necessary for bacteria growth inside of fabric without the use of noxious chemicals.
- The FreshGuard elements are permanently in the fabric. Dri-release and FreshGuard work together to absorb moisture and quickly release it through the fabric and into the air, which also minimizes odor creation.
- FreshGuard's function is to reduce the odors created by bacteria within the fabric in an environmentally friendly way.

# Comfort Lab testing proves *Dri-release*<sup>®</sup> keeps you cooler & drier than *Coolmax*<sup>®</sup>



Here is an example of a comfort test conducted in our Optimer comfort facility in Delaware. We expanded our Yale studies to test Coolmax versus our Dri-Release in t-shirts. A t-shirt was created from half Dri-Release and half 100% polyester Coolmax fabric. Both fabrics were the same weight and construction. Two relative humidity sensors were taped to a subject's back close to their arms. The subject was at rest for ten minutes to show that the relative humidity sensors initially register the same levels of relative humidity. The subject was then asked to get onto a NordicTrak and workout for a period of 20 minutes. Notice that the Dri-Release side keeps the athlete closer to the ambient relative humidity of the room. This indicates that the Dri-Release fabric is keeping the athlete cooler and drier during their workout.

## Comfortrel vs Dri-release®



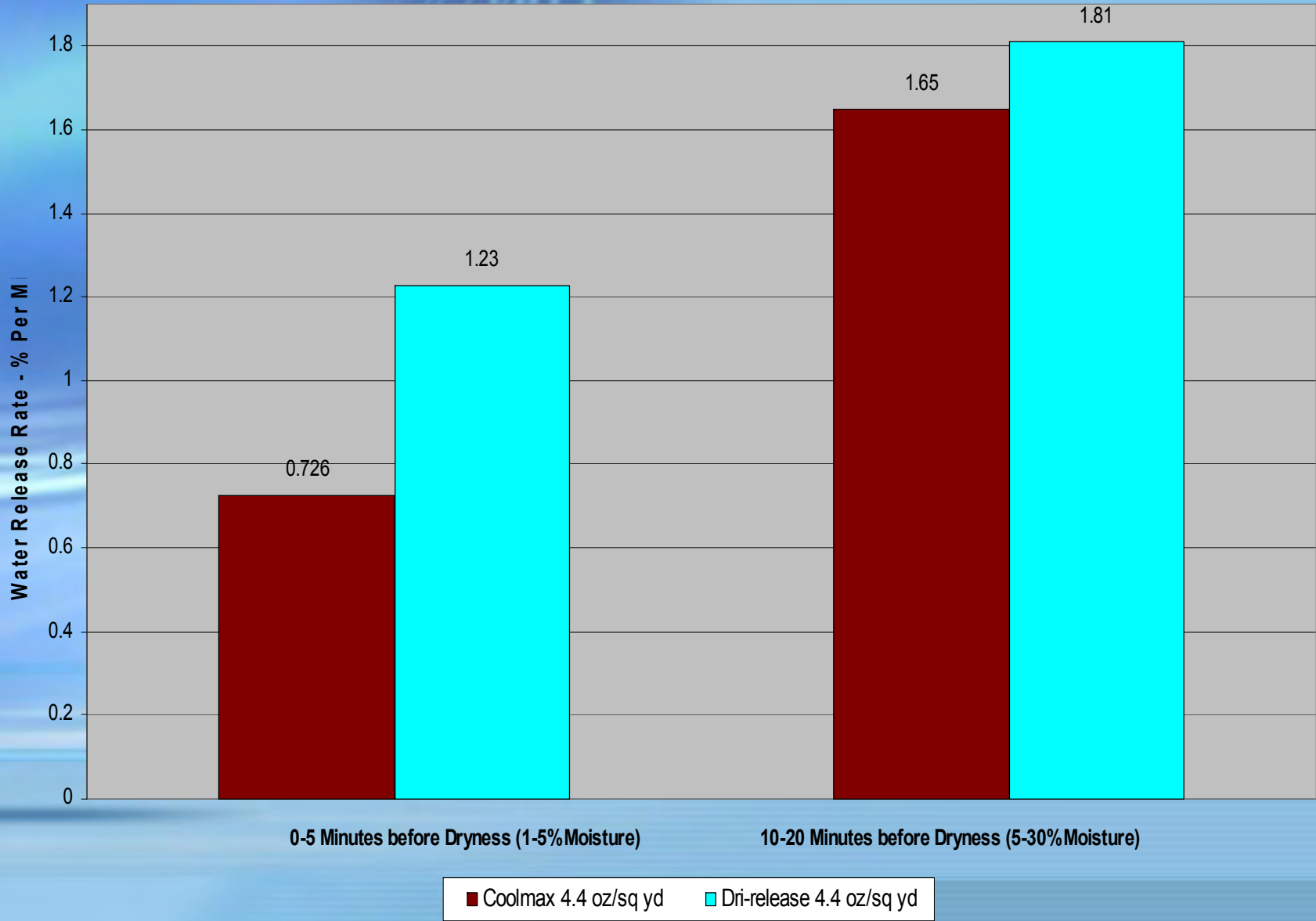
### WRR @ 0-5 Minutes

Comparison of average WRR - % water released per minute - during the time range of 5 minutes before dryness to dryness. The fabrics in this time range are at the critical 0-5% Moisture. This is the most critical range, because it's when it is most noticeable by the wearer. This initial high WRR will also inhibit the moisture build-up during, for example, a normal exercise routine, when most persons do not exceed a few % moisture. In this instance, the *dri-release* fabric is drying more than 3 times faster than Comfortrel.

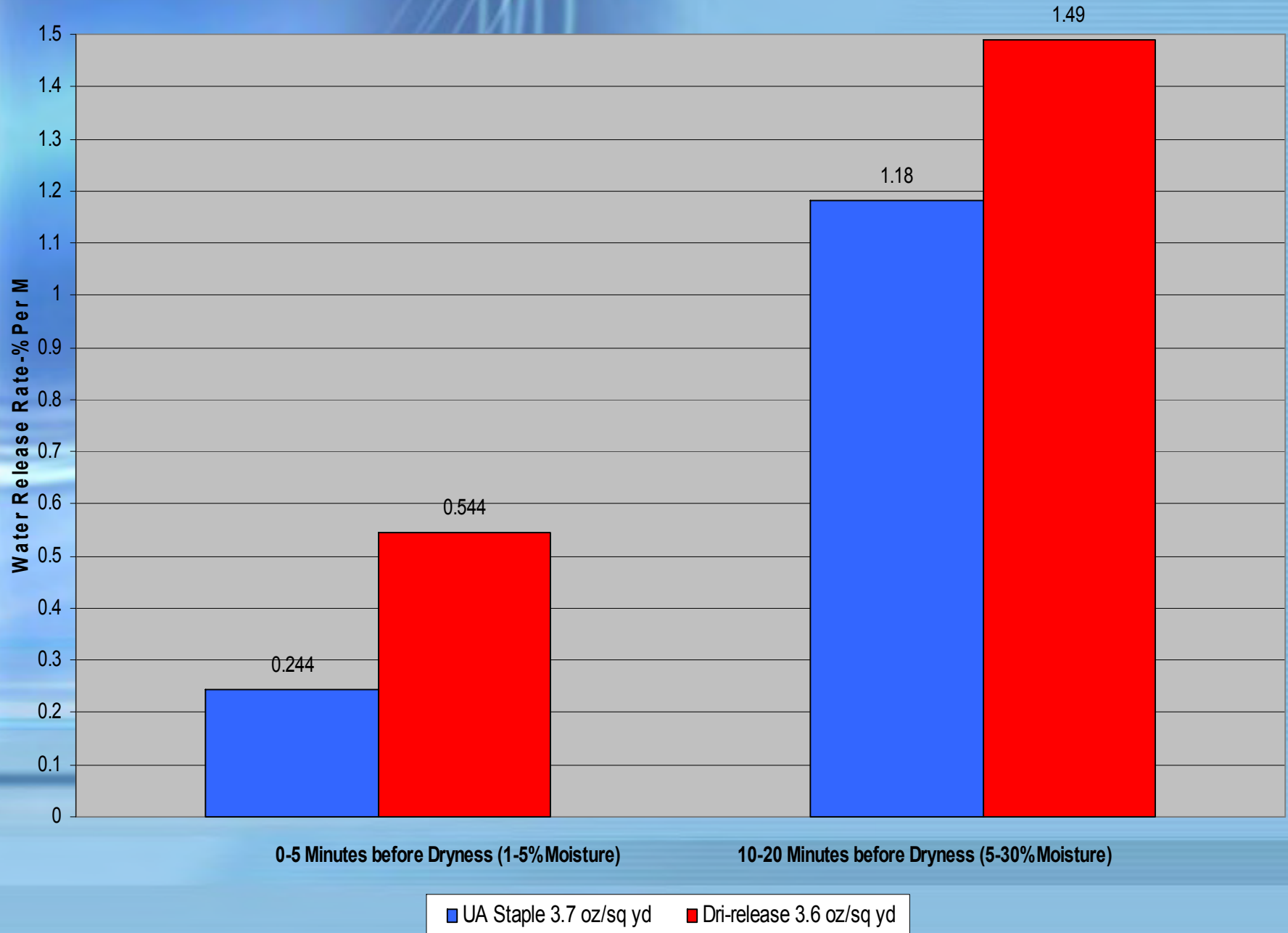
### WRR @ 10-15 Minutes

A comparison of average WRR - % water released per minute - during the time range of 10-15 minutes before dryness to dryness. Although not as critical as the range near dryness it is important to show that the *dri-release* is consistently drying faster.

# Coolmax vs Dri-release®



# UnderArmour staple vs Dri-release®



# Stain Release Testing

Milk: 5.0

Mayonnaise: 5.0

Orange Juice: 5.0

Butter: 5.0

Cola: 5.0

Coffee: 4.0

Mustard: 3.5

Ketchup: 1.5

Tea: 1.0

Testing conducted by US Testing

Scale: 5 (best) – 1 (worst)

White Anvil T-shirt



# Who trusts **dri-release**<sup>®</sup> technology to their products?

## Academy Sports & Outdoors

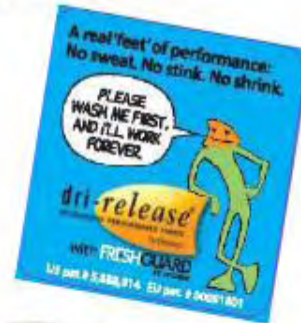
Adidas  
Atle  
ACS  
Alo  
AStyle  
Austral  
Avril  
Art di Como  
Asics  
Bass Pro  
Bavac  
Beehive  
Billabong  
Bristol Bay Outfitter  
Bode & Bonst  
Brooks  
BSN Medical  
Burborse  
Cabela's  
Cal Cra  
Caro Socks  
Carole Boehmann  
Casali  
Columbia  
Comfort Therapy  
CoolJamz  
Croquet & Golf  
CTR (Claus Thermal Regulation)  
Cuddi Duds  
Danner  
Dabigren  
Dillard's  
Disney  
dri-FIRE

Doofold  
Eagle USA  
ECCO  
Ekman  
en-day  
Er Offelo  
Gino Tabaldo  
Globetrotter  
Gold Toe  
Gordini  
Go Sport  
B3D  
Batesbands  
Barley-Davidson  
Barkot Wear  
Billy Clothing  
Bony Toad  
Iaffi  
Iroofs  
Intensocks  
Intersports  
Ironclad  
JJ B Sports  
Jockey  
K2  
Kafmanco  
Keen Footwear  
Kombi  
Kunst  
Kyrä-K  
Lamour  
Lands' End

Lattitude IS  
Lerjoy  
Loder  
Logan Millan  
Lok  
Lululemon  
Marmot  
Mark's Work Wearhouse  
Marmot  
Maverik Lacrosse  
Medette  
Metodi  
Millet  
Montana Bardbear  
Nautica  
Nautika  
Nest  
Nike  
Nordica  
Nordic Track  
Nordstrom  
Oakley  
Orselle  
Oobe  
Outdoor Research  
Paddi Murphy  
Peak Performance  
Polo RLX  
Profect  
Puma  
Quiksilver  
Rapha Racing

REI  
Rip Curl  
Roban  
Roomwear  
Roxy  
Rugby Imports  
Salomon  
Salter  
Seger  
Shella Moon  
Smart Socks  
Sofie  
Solstice  
Spooney Weave  
Sport Science  
Sportize  
Stansfield  
Strib  
Teetka  
Tempur-Pedic  
Terra  
Tierra  
Tog 24  
Toolbed  
TravelSmith  
Union Bay  
US Military  
Yokom  
Wigwam  
Wild Biko  
Wooltek  
WP Bone

# Hangtags





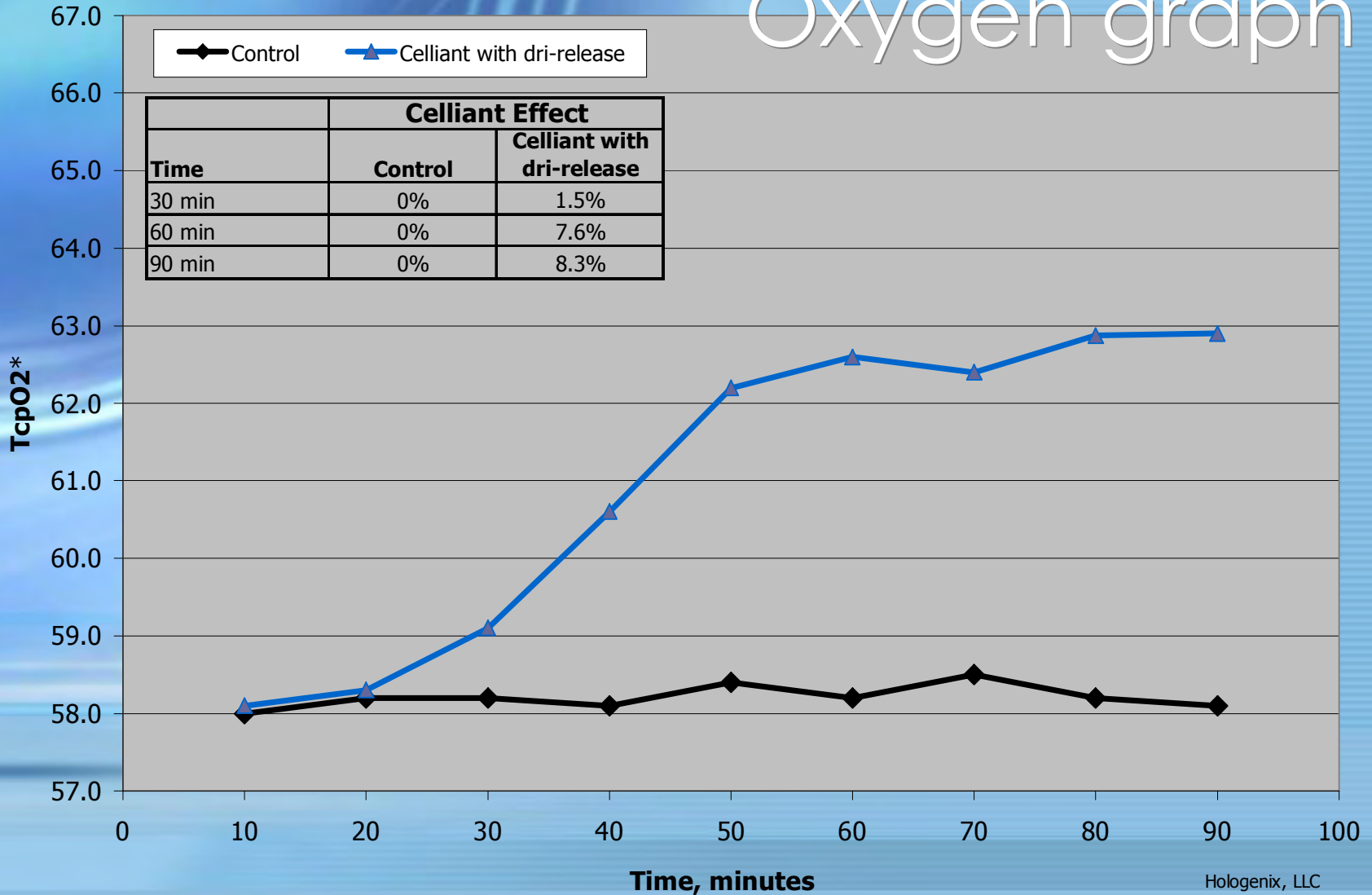
# A02: Celliant with dri-release<sup>®</sup>

24 year old female non-smoker; Room 75±1°F  
Fabric placed over torso and shoulders; sensor on right forearm



09/25/08

## Oxygen graph



\*TcpO2 = transcutaneous oxygen partial pressure

# DRY ENGERY™

## TWO GREAT TECHNOLOGIES

### ONE MAGNIFICANT YARN

## Why Combine these two great technologies?

- One yarn for all your products
- Real Value for the consumer
- Brand Recognition
- Applicable for all markets - sports - medical - apparel - hosiery - sleep
- One of a kind yarn, Nothing else like it in the marketplace





ACHIEVE o2 LLC  
59 PARK STREET  
SUITE 3  
BEVERLY, MA 01915  
(978) 712-4355

<http://www.achieve-o2.com>

<http://www.drirelease.com>

<http://www.celliant.com>