



THE SCIENCE OF SILVER

The active ingredient in IONIC+ Mineral Antimicrobial - silver, has been used to inhibit bacterial, and microbial growth, prevent infection, and promote human health since 1300 BC.

When applied properly, positively charged silver ions are attracted to negatively charged bacteria. The ions attracted to the bacteria's DNA disrupt its respiration, cell division, and replication processes.

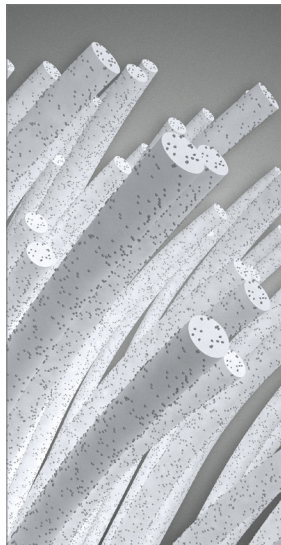
Over time, as the application of the science has evolved, silver has been integrated into numerous products across a broad range of industries: cosmetics, textiles, medical devices, advanced wound care, and more.

FUN FACTS

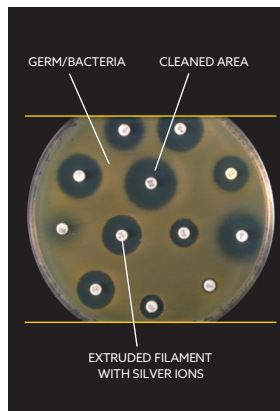
Humans can distinguish at least 1 trillion odors. We have trillions of bacteria that embed themselves on our fabrics resulting in odorous apparel and contaminated materials. Removing the bacteria from the fabric - not from the body via a self-cleaning mechanism like IONIC+ allows clothing and other materials to stay fresher longer. This extends cleaning intervals which requires less care, washing, and extends the life of fabrics.



IONIC+ PERMANENT YARN ODOR CONTROL SOLUTION



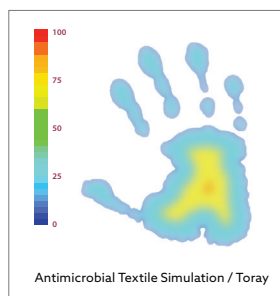
- + Professional athlete grade performance
- + Industrial wash standard/over 100x wash durability
- + EPA registered, Oeko-Tex Standard 100
- + Non-metallic yarns that use silver ion technology with either virgin or recycled polyester or nylon
- + Blended with natural and man-made fibers (nylon, cotton, wool, polyester, acrylic, etc.)
- + Technology inherent in the fiber, the ion technology does not wash out and lasts for the life of the fabric
- + Completely dyeable, coloring options allow for endless design possibilities



ZONE OF INHIBITION

Silver ions inhibit microbe/bacteria growth and reproduction. In this petri dish, you can see how microbes will not grow near the yarn.

IONIC+ Pro provides more coverage of silver ions increasing the zone of inhibition throughout the entire fabric. This translates to permanent reduction of odorous bacteria on the fabric because the technology **DOES NOT WASH OUT.**



99.9% MICROBIAL REMOVAL RATE ON FABRIC IN JUST 59 MINUTES

- 10 minutes = 46.9% removed
- 20 minutes = 70.6% removed
- 30 minutes = 84% removed
- 40 minutes = 91.3% removed
- 59 minutes = 99.9% removed

ANTIMICROBIAL FABRIC IN ACTION

This touch simulation of real test results represents a timelapse of microbial removal rates on fabric (micro-organisms include bacteria and fungi).



PERMANENT MINERAL ANTIMICROBIAL + ODOR CONTROL

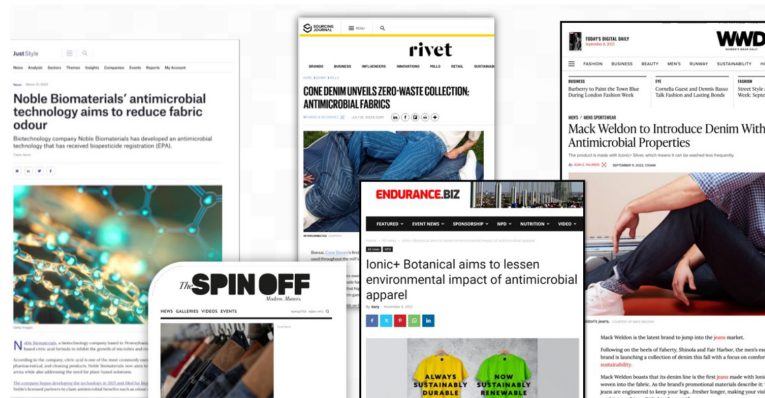
PRODUCT SUPPORT FROM NOBLE

- + Fabric Development Support, Testing, and Sampling
- + Technical Services Team, Quality Assurance, and Factory Orientations
- + Dedicated Customer Service and Account Management Teams
- + Dedicated Regulatory Team for Marketing Claims and Certifications

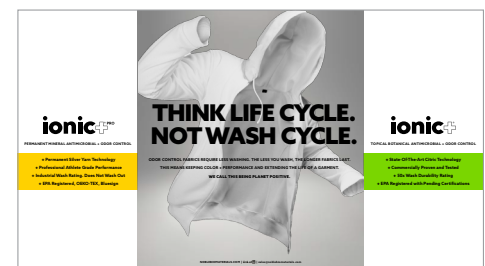
MARKETING SUPPORT FROM NOBLE

- + Planet Positive Brand Campaign
- + PR/Social/Earned Media Support
- + Influencer/PR Sample Seeding Programs
- + Branded Support, Hangtags, Labels, and Transfers

Publicity



New Planet Positive Campaign



Hangtags, Labels, Transfers



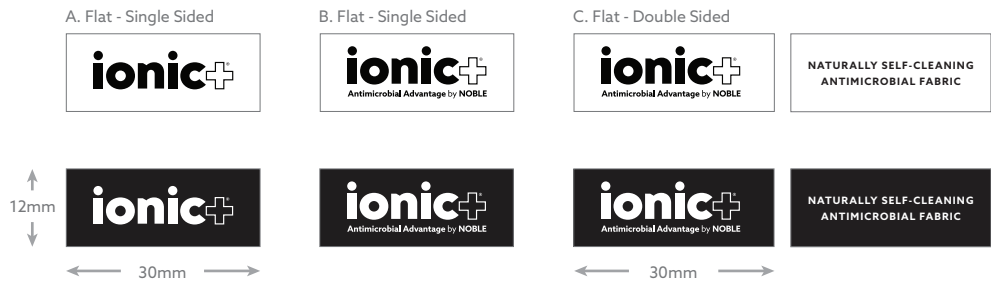
IONIC+® BRAND SUPPORT FOR ALL END USE PRODUCTS*



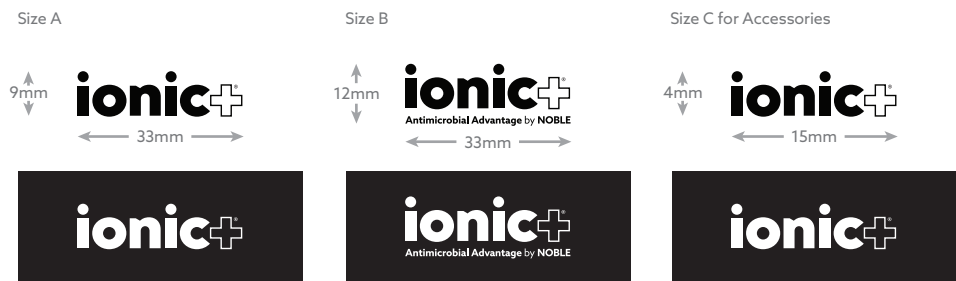
HANGTAGS One universal, multilingual tag for all products in all sizes, printed on 100% recycled paper



PRINTED FABRIC LABELS A universal label: three styles, positive and reverse designs



HEAT TRANSFERS A universal emblem: three styles, positive and reverse designs



* Additional languages for Asia available upon request. Brand support is complimentary on orders that are placed 60 days before in-hand date.

NOBLE REGULATORY AND AFFILIATIONS



US FOOD & DRUG
ADMINISTRATION
510(k) Medical
Device Clearances



EUROPEAN COMMUNITY
CERTIFICATION
Used in Customer-Cleared
Class 1, 2 and 3 Medical
Devices



US ENVIRONMENTAL
PROTECTION AGENCY
Antimicrobial Registrations



OEKO-TEX®
Standard 100
Certification



BLUESIGN
System Partner

FOR MORE INFORMATION, PLEASE CONTACT:

USA SALES – AMERICAS

Andy Lovell
alovell@noblebiomaterials.com

Gail Prymock
gprymock@noblebiomaterials.com

Mark Sardella
msardella@noblebiomaterials.com

IONIC+ BUSINESS MANAGER

Allon Cohne
acohne@noblebiomaterials.com

CIRCUITEX BUSINESS MANAGER

Bennett Fisher
bfisher@noblebiomaterials.com

ASIA

Dan Xue
dxue@noblebiomaterials.com

EUROPE, INDIA, AND MIDDLE EAST

Steve Milner
smilner@noblebiomaterials.com

REGULATORY

Terry Walmsley
twalmsley@noblebiomaterials.com

CUSTOMER SERVICE

Debra Boedeker
dboedeker@noblebiomaterials.com

PRODUCT & TECHNICAL SERVICE

Jodi Wallis
jwallis@noblebiomaterials.com

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NOBLE BIOMATERIALS, INC., 300 PALM STREET, SCRANTON, PA 18505
+1 (570) 955-1800 • FAX +1 (570) 955-1801
INFO@NOBLEBIOMATERIALS.COM • NOBLEBIOMATERIALS.COM