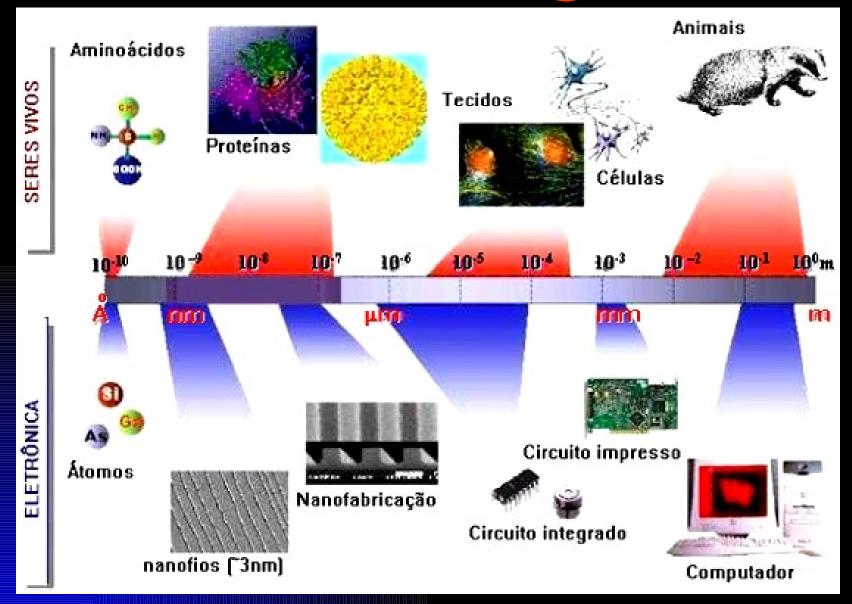
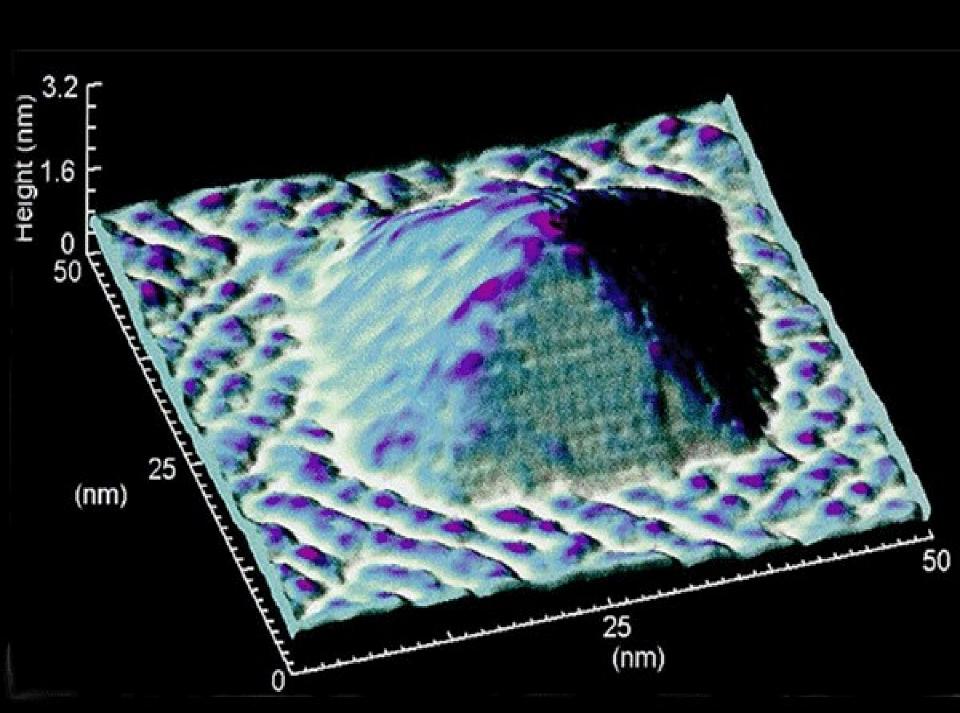


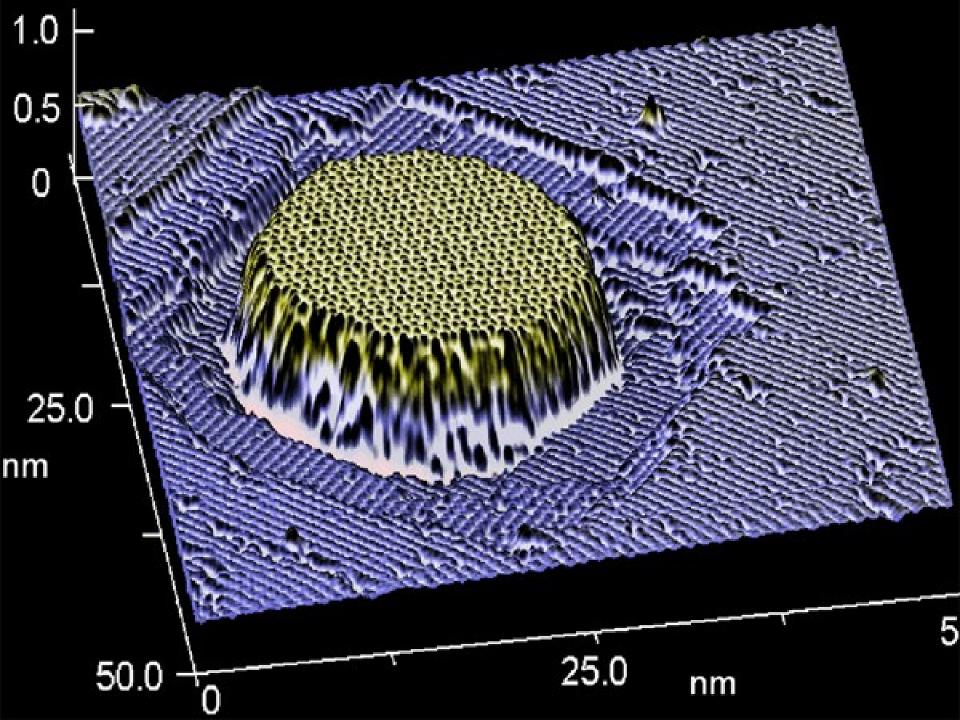
Nanotecnologia



MICROSCÓPIO DE TUNELAMENTO DE CAMPO







A Nanotecnologia como Estratégia de Estado



National Science and Technology Council (NSTC)

Committee on Technology

The Interagency Working Group on Nanoscience,

Engineering and Technology (IWGN)

Nanotechnology

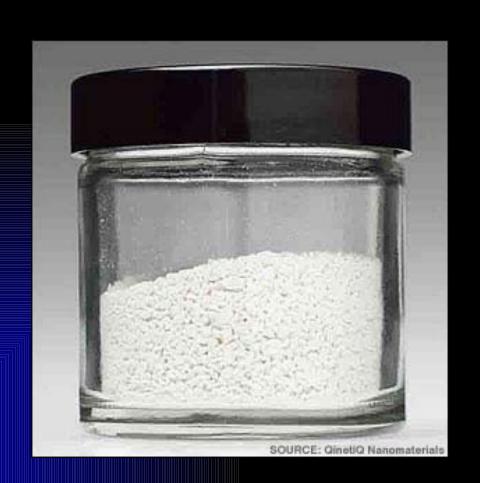
Shaping the World Atom by Atom

A Nanotecnologia como Fator de Competitividade Global



Vice Ministro de Assuntos Economicos Mr. Shih Yenshiang (terceiro da esquerda) aperta o botão para marcar a inauguração do Logo de Identificação dos Produtos Nanotecnológicos de Taiwan. CNA Photo Dec. 20, 2005

NANOPARTÍCULAS

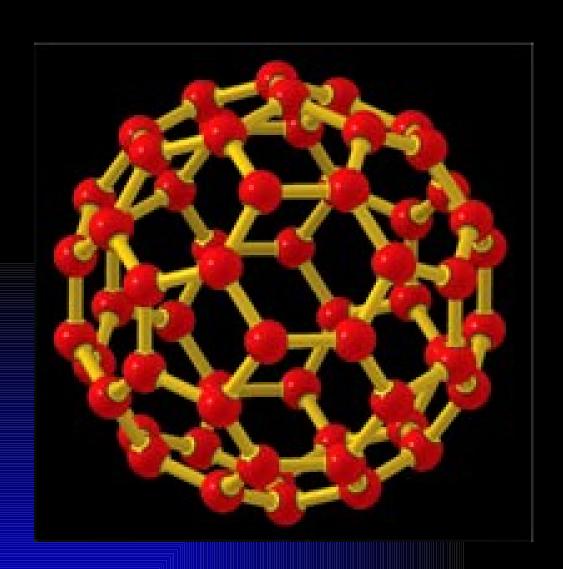


NANOPARTÍCULAS

Nesse recipiente estão somente 5 gramas de NANOPARTÍCULAS, o suficiente para distribuir para cada pessoa na Terra 3.000.000 delas.

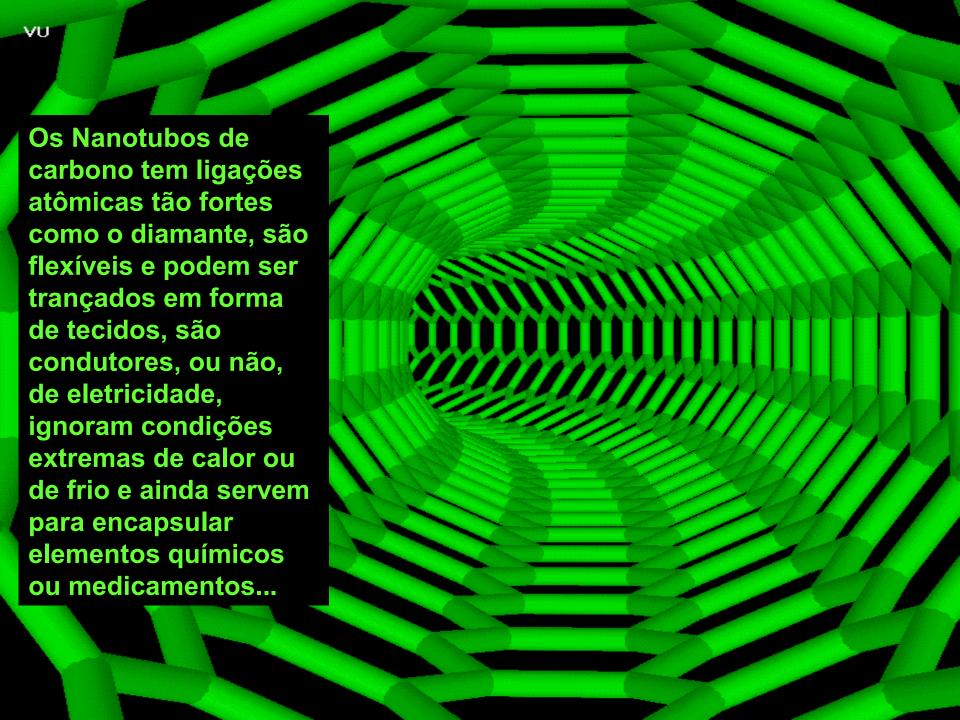


Nanoballs



Com 60 átomos de Carbono, as **Nanoballs** podem encapsular átomos, moléculas, medicamentos e outros compostos moleculares.

Suas ínfimas dimensões permitem que sejam inseridas nos Núcleos Celulares.



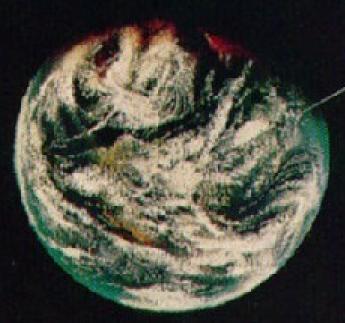
Nanotubos de Carbono

100.000 vezes mais fino que um fio de cabelo

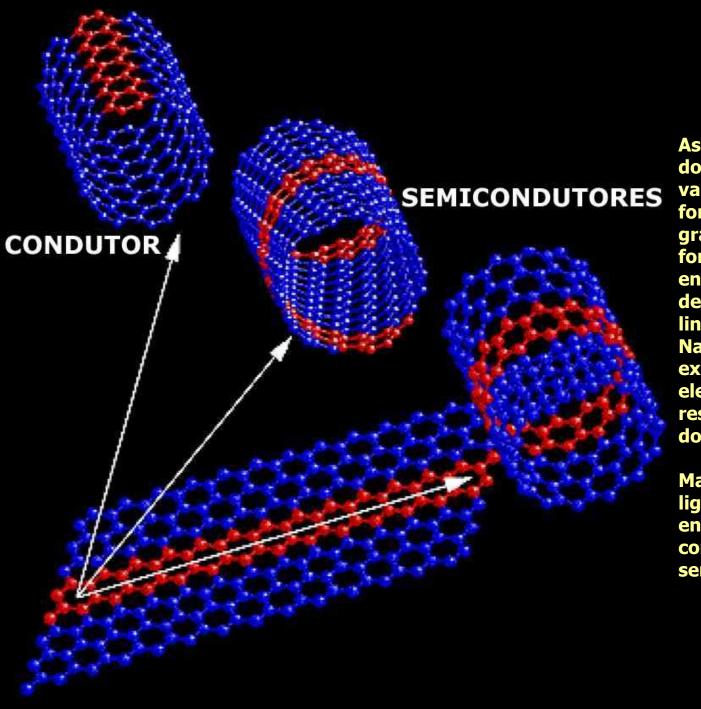


Nanotubos de Carbono

Trançados em forma de fita, poderão içar Elevadores para Estações Orbitais (NASA)



Somente em outra ocasião o Governo Norte Americano alocou tantos recursos num Programa Científico: O Projeto Apolo

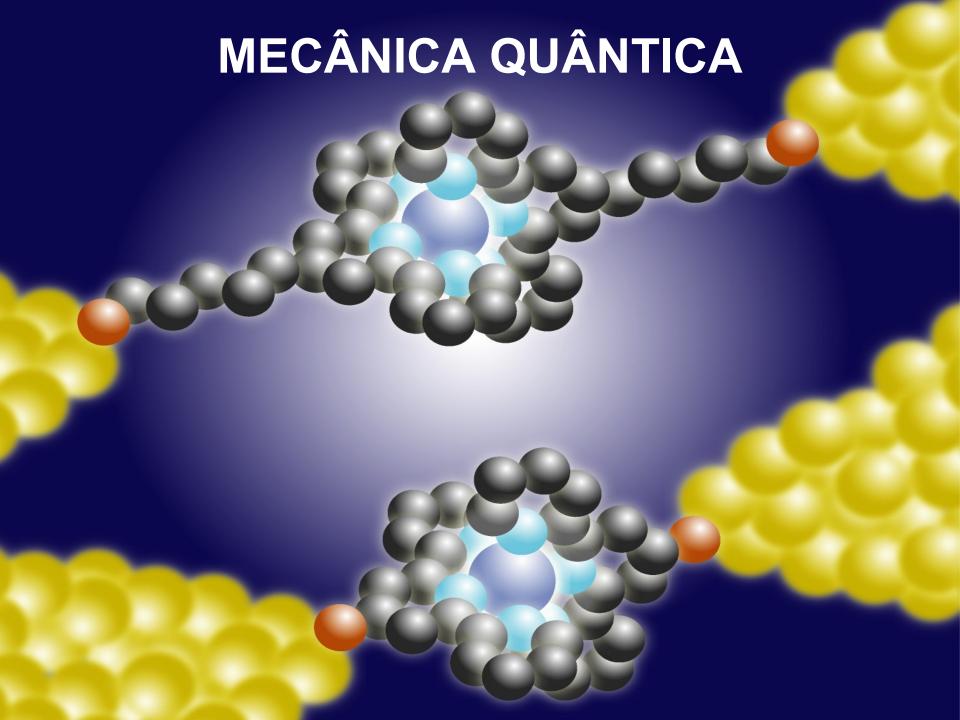


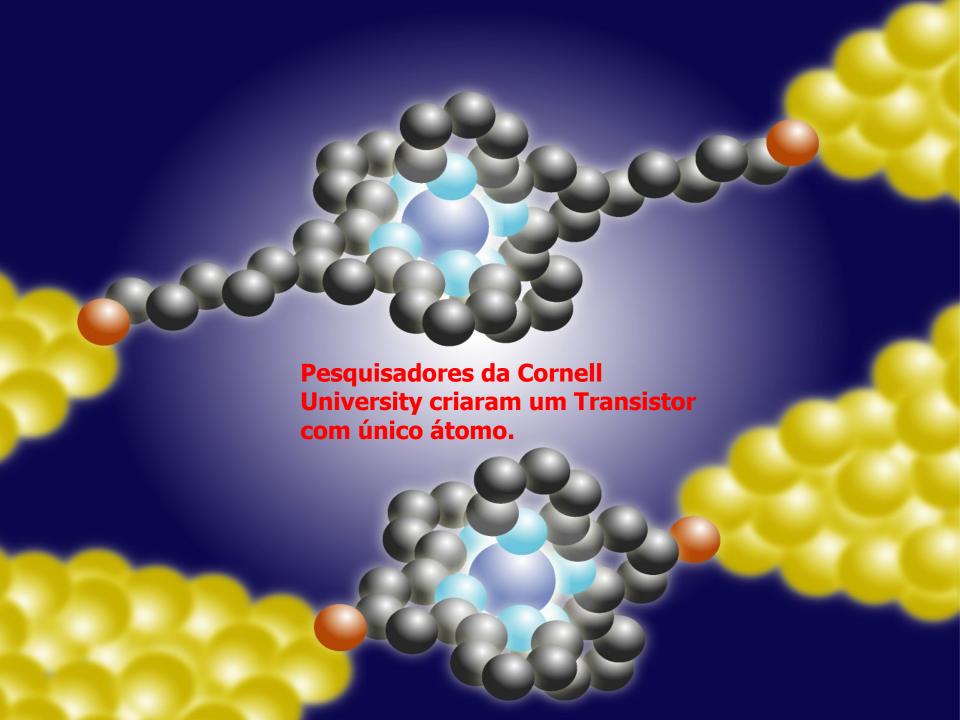
As características elétricas dos Nanotubos de Carbono variam de acordo com a forma pela qual a folha de grafite foi "enrolada" para formar o tubo. Se ela for enrolada sobre si mesma de modo a manter a linearidade da estrutura, o Nanotubo será um excelente condutor de eletricidade, com resistividade menor que a do cobre.

Mas se a folha sofrer uma ligeira torção antes de ser enrolada, o Nanotubo se comportará como um semicondutor.

LEIS NEWTONIANAS







Nano Business

A NANOTECNOLOGIA OCUPA ESPAÇOS





What
do Hewlett-Packard, IBM, General
Electric, DuPont and Intel have in
common?
All are investing in nanotechnology.

A Nanotecnologia no Mercado Automotivo



A pintura dos novos Mercedes Benz são resistentes à riscos e arranhões graças às ligações cruzadas de alta densidade e nanopartículas de cerâmica.



A AUDI também aposta nas Soluções Nanotecnológicas

"The potential is enormous. Nanotechnology has something visionary about it, it fires creativity in a way that will benefit car manufacturing in the future."

Dr. Hans Bauer

Physicist in Charge of the Nanotechnology Program at Audi.

Produtos Dermatológicos



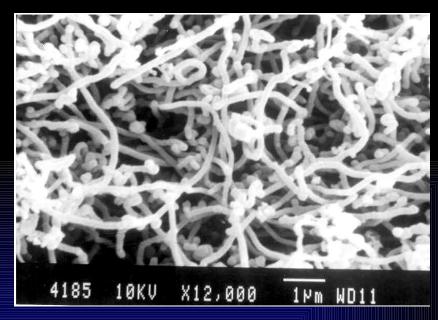


NANO BREAST CREAM - Product features insant breast firmness & enhancement, Increases the breast size from 1 to 3 cup size Nanosomes expands the cellular substructure of the breast cells Promotes development of the lobules and alveoli of the breasts, Nanosomes tone and elasticity the breast tissue, Protection from free radicals, Stimulates glandular tissue growth, Stimulates the development of the mammary tissues, Lengthen the milk ducts, Stimulate and expand fat tissues, Develop stromal tissues of the breast, Stimulating blood to better nourish skin, Breast shapes size with more visible cleavage.

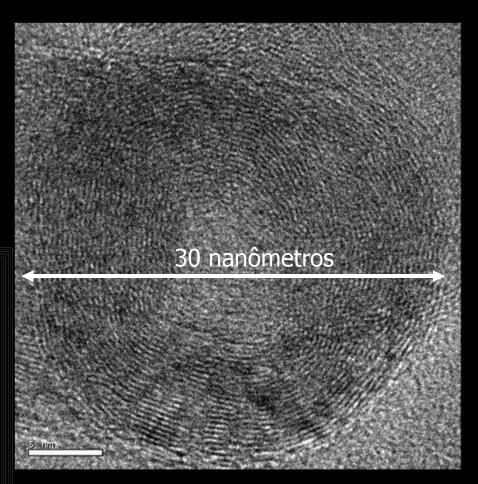
PRODUTOS DISPONÍVEIS NO MERCADO INTERNACIONAL



A Nanotecnologia no Mundo Têxtil



Nanofibras de Carbono



Nanofios de Carbono (HRTEM)

A Nanotecnologia no Mundo Têxtil











A Nanotecnologia no Mundo Têxtil



Water and Oil repellency outside.
Wicking properties inside.
Anti-bacterial.
Anti-UV and
Warm-keep.





A Nanotecnologia chegará ao Mundo Fashion da mesma forma como já chegou nos cosméticos













NANO TECIDOS



NANO TECIDOS













NANO TECIDOS

Nano Bag is an infant car seat and stroller accessory that provides warmth for your baby while traveling and outdoors. Nano Bag is a bunting bag that will keep your baby happy, cozy and most importantly dry, because Nano Bag is **the only water repellent bag in the market** to transport baby in and out of the car.





\$ 34.95



NANO SELANTES PARA TECIDOS



'Percenta Nano Textile & Leather Sealant' is dry cleaning resistant.





As Novas Empresas Nano I



Nano-Tex é uma empresa de Emeryville, California, USA.

Seu negócio é INOVAR TECIDOS através da NANOTECNOLOGIA.

Sua proposta é agregar características de PERFORMANCE SUPERIORES aos tecidos do dia-a-dia.

Centro de Pesquisas : Emeryville (100%)



Nano-Tex não vende tecidos.

Comercializa somente a tecnologia de fabricação das fibras nanoestruturadas.

Posicionamento Estratégico Global







PRODUTOS INCORPORAM NANOTECNOLOGIAS:



Resists Spills – Spill resistant fabric enhancement for many types of fibers (cotton, synthetics, wool, silk, rayon, polypropylene) that repels a range of liquids (e.g. beverages, salad dressings, etc.)



<u>Coolest Comfort</u> – Quick-absorbing fabric enhancement providing superior wicking properties, which pulls perspiration away from the body and dries it quickly to keep the body cool and comfortable.



Repels and Releases Stains - In this dual-acting treatment, the first line of defense is Nano-Tex's superior repellency technology which causes liquids to bead up and roll off the fabric. For stains that get ground into the fabric, Nano-Tex's patented release technology frees stains from fibers during a normal wash cycle.



Resists Static - The first permanent anti-static treatment reduces static cling and repels statically-attractive substances - such as dog hair, lint and dust - to improve the overall appearance and comfort of garments.



What you don't see makes all the difference.™

Nano-Tex's revolutionary technology fundamentally transforms fabric at the nano-level to dramatically improve your favorite everyday clothing.

Are you ready for what's next?



(

IIII WHERE TO BUY

- Apparel
- Uniforms

IIII FAQS

• Read FAQs Learn more about Nano-Tex™ Coolest Comfort Fabric

IIII DOWNLOAD

• Product Info Learn more about Nano-Tex™ Coolest Comfort Fabric (.pdf)

COOLEST COMFORT

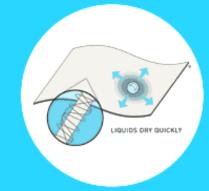
The Alarm goes off and it's the beginning of another day. A bus ride, a presentation, a walk for lunch, and an evening workout are still ahead of you.

You just smile.

Whether you're inside or outside, working or playing, you'll know that NANO-TEX™ Coolest Comfort fabric will help you look and feel cool all day long. It offers advanced moisture wicking without comprimising softness or breathability.

With NANO-TEX Fabric, you'll be sure to keep your cool. You'll stay cool and comfortable-regardless of the day's activities. Experience the breakthrough and be ready for whatever's next.





CHARACTERISTICS

COOLNESS

pulls moisture away from skin to evaporate fast

COMEORY

retains natural softness for maximum comfort

BREATHABILITY

allows fabric to breathe naturally

DURABILITY

maximizes performance over time



RESISTS STATIC

The kids got a snow day, but you sure didn't. You'll be crisscrossing downtown going from one meeting to the next. It'll be cold and hectic, but at least you'll be comfortable.



Demonstration
 Video (.mpg S1Mb)

IIII DOWNLOAD

Product Info
 Learn more about
 Nano-Tex™ Resists
 Static (,pdf)

You've got clothes made
with NANO-TEX™ Resists Static fabric,
which helps you look and feel your
best, no matter how much electricity
is in the air. Your clothes won't cling
to you and fuzz won't cling to your
clothes, so you can do winter in style.

With NANO-TEX™ Fabric, you can shake off the weather as you shake off lint. Experience the breakthrough and get ready for whatevers next.



CHARACTERISTICS

STATIC RESISTANCE

neutralizes static charges to eliminate cling

DURABILITY

maximizes performance over time

COMFORT

retains natural softness for maximum comfort

BREATHABILITY

allows fabric to breathe naturally



REPELS & RELEASES STAINS

Sunday brunch is over, and your nephew has just invited you to play a game of touch football. There's no time to change, but that won't stop you.

Your pants are made with NANO-TEX™ fabric that repels

and releases stains, so you're protected on defense and offense. Spill resistance keeps stains from soaking in, while stain release allows them to easily come clean. And the best part is that you don't have to sacrifice any comfort to get this peace

With NANO-TEX™
fabric, your clothes
fit your lifestyle, not
the other way around.
Experience the
breakthrough and be
ready for whatever's next.

of mind.



CHARACTERISTICS

SPILL RESISTANCE allows spills to wipe off easily

STAIN REMOVAL allows stains to wash out easily

COMFORT

retains natural softness for maximum comfort

SPILLS ROLL OFF

STAINS WASH OUT

DURABILITY

maximizes performance over time



Product Info

Learn more about Nano-Tex™ Repels & Releases Stains (.pdf)





III WHERE TO BUY

- Apparel
- Interior
 Furnishings
- Uniforms

III FAQS

• Read FAQs Learn more about Nano-Tex™ Resists Spills Fabric

DOWNLOAD

 Product Info Learn more about Nano-Tex™ Resists Spills Fabric (.pdf)

RESISTS SPILLS

The waiter just spilled an iced latte in your lap, but you don't mind. You're wearing pants made with NANO-TEX™ spill-resistant fabric, so the coffee just beads up and rolls right off.

Now, this beats those conventional fabric treatments we've all seen before. That's because Nano-Tex builds spill resistance into the very fibers of the fabric, and this keeps the pants comfortable, soft, and breathable—just as they should be.

With NANO-TEX Fabric, you're looking good and feeling good. Complications roll away like water off a duck's back, and you're ready for whatever's next.



CHARACTERISTICS

SPILL RESISTANCE

allows spills to wipe off easily

DURABILITY

maximizes performance over time

COMFORT

retains natural softness for maximum comfort

BREATHABILITY

allows fabric to breathe naturally



PRODUTOS E MERCADOS

Calças para homens, mulheres, idosos e crianças, roupas esportivas, uniformes, roupas de lazer e de trabalho. Está também presente em produtos para casa, mesa e banho. Em tecidos especiais, está em assentos de estádios e ginásios esportivos.

Pontos de venda:



Brooks Brothers
DAMAT & Tween
GAP, GapKids
Gary's of Newport
La Redoute, Land's End
Lee, NEXT
Nordstrom, Travelsmith

As Novas Empresas Nano II



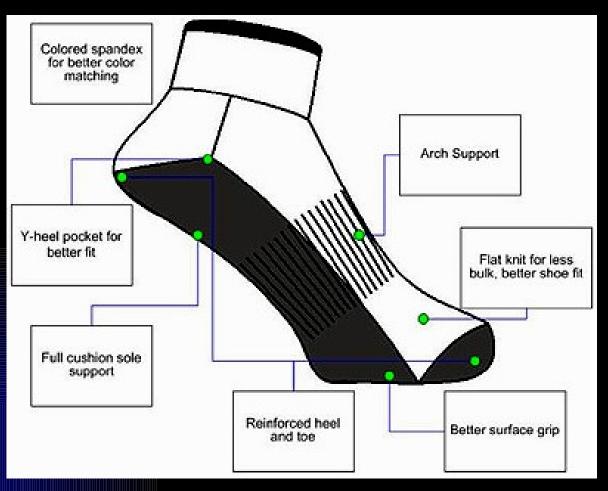
Greenyarn, a Boston Nanotech Startup





Greenyarn, a Boston nanotech startup, has recently introduced Eco-fabric socks – socks that self-deodorize and fight fungii and bacteria. These socks contain Eco-fabric, a fabric that fights bacteria and fungii, deodorizes, resists static, promotes blood circulation and is a completely green material made from renewable bamboo charcoal.



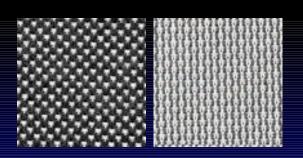


These short socks come up to just around the ankles and its cushion sole reduces shocks. These socks are highly suitable for users who spend a lot of time on their feet, such as athletes, nurses, or teachers.



Eco-fabric

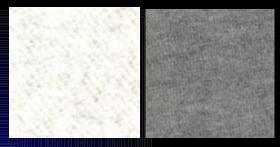
Amostras dos tecidos que combinam **Eco-fabric** com Polyester, Algodão, Nylon, Lã ...



No.: PLB-06002 Width: 44"

Weight/Yard: 270g.

Composition:
Polyester 42%
Eco-fabric 58%



No.: PLB-06014 Width: 36" Composition: Cotton 34% Eco-fabric 66%



www.greenyarn.com







Contains nano-particles of bamboo-carbon

Moist+ is a relaxing at-home facial treatment for vibrant, soft and silky-smooth skin. The soft Eco-cotton facial mask will give you the moisturizing and relaxing benefits of a spa-quality facial in your own home. Each mask is pre-cut and pre-moistened with a relaxing mix of rose hip extract, marine collagen, Hyalurosan, Mulberry Bark Extract and Matricaria extract, to moisturize your skin and boost its radiance. Moist Plus will moisturize and repair your skin and prevent wrinkle formation. It also protects against free radicals, and whitens your skin in just 15 minutes.

NANO TECIDOS

O QUE VEM POR AI...

CHEMICAL-RESISTANT TEXTILES

Juan Hinestroza at North Carolina State University and researchers at the University of Puerto Rico have pioneered a method to develop chemical-resistant textiles by attaching nanolayers to natural fibers "We can specifically block warfare agents like mustard or nerve gas, or industrial chemicals, while still allowing air and moisture to pass through to make the fabric breathable. "Chemicals are blocked, when they bind to the polymers of the fibers, which are made of materials which attract the chemical agents. These fabrics could be made into garments that offer very high levels of protection, without affecting comfort or usability. There are dozens of potential uses of this technology: gloves coated with arthritis drugs; military uniforms coated with antibacterial layers to prevent infection in case of wound; antibacterial sheets for submarine bunks to preventillness spread as these bunks are shared by enlisted personnel; and comfortable protective clothing against several chemical and biological warfare agents, diapers coated with anti-itchingpolyelectrolytes or tissues coated with anti-allergy medicine.

NANO TECIDOS

O QUE VEM POR AI...

CLOTHING THAT EMITS SUBSTANCES BY SLOW RELEASE

Micro-encapsulation involves depositing microcapsules onto a yarn or fabric containing a slow-release active agent. This process has led to the emergence of fragranced fabrics, with miniscule capsules of perfume (Austrim Textiles Pty Ltd, Sofileta) or moisturisers (Penn Elastic, Welbeck) incorporated in the actual textile.

GARMENT WHICH AUTOMATICALLY REMOVES UNWANTED HAIR

James McGalliard has invented a fabric garment which automatically removes unwanted hair while being worn against the skin of the user. The garment is coated with a pressure sensitive microencapsulated depilatory agent. Pressure exerted by a hair stubble against the fabric causes the microencapsulation to rupture and dispense the depilatory agent in a small localized area around the hair follicle. The depilatory agent dissolves the hair stubble without irritating the user's skin.

NOVOS SITES E REVISTAS







Europe's largest independent Nanotech News site



nanobusiness.org

Our Business is Nanotechnology







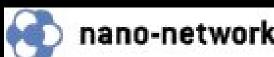


NOVAS EMPRESAS



The NanoAging Institute











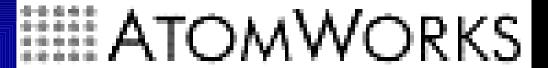










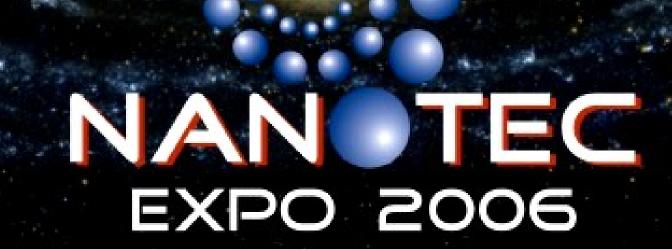


Como a Nanotecnologia fará parte da nossa vida



- 1 Organic Light Emitting Diodes (OLEDs) for displays
- 2 Photovoltaic film that converts light into electricity
- 3 Scratch-proof coated windows that clean themselves with UV
- 4 Fabrics coated to resist stains and control temperature
- 5 Intelligent clothing measures pulse and respiration
- 6 Bucky-tubeframe is light but very strong
- 7 Hip-joint made from biocompatible materials
- 8 Nano-particle paint to prevent corrosion
- 9 Thermo-chromic glass to regulate light
- 10 Magnetic layers for compact data memory
- 11 Carbon nanotube fuel cells to power electronics and vehicles
- 12 Nano-engineered cochlear implant

Venha ver essa nova tecnologia que está revolucionando o mercado!



ITM EXPO - SAO PAULO - 6 A 8 DE NOVEMBRO

II FEIRA & CONGRESSO INTERNACIONAL

DE NANOTECNOLOGIA.

Das 13:00 as 20:00hs — Entrada Gratuita

www.nanotecexpo.com.br

Co-Promotores















Apoio:

MINISTÉRIO DA CIÊNCIA E TECNOLOGIA SECRETARIA DA CIÊNCIA, TECNOLOGIA E DESENVOLVIMENTO ECONÔMICO DO ESTADO DE SÃO PAULO FINEP • FAPESP • ABNT • SEBRAE S.P.

Patrocinio Platinium





Iniciativa e Realização



