

TECHNICAL **THREAD.**

Issue 7
May/June '06

Supporting the Northwest Textile Industry



Auxetics Where Smart Materials meet Technical Textiles

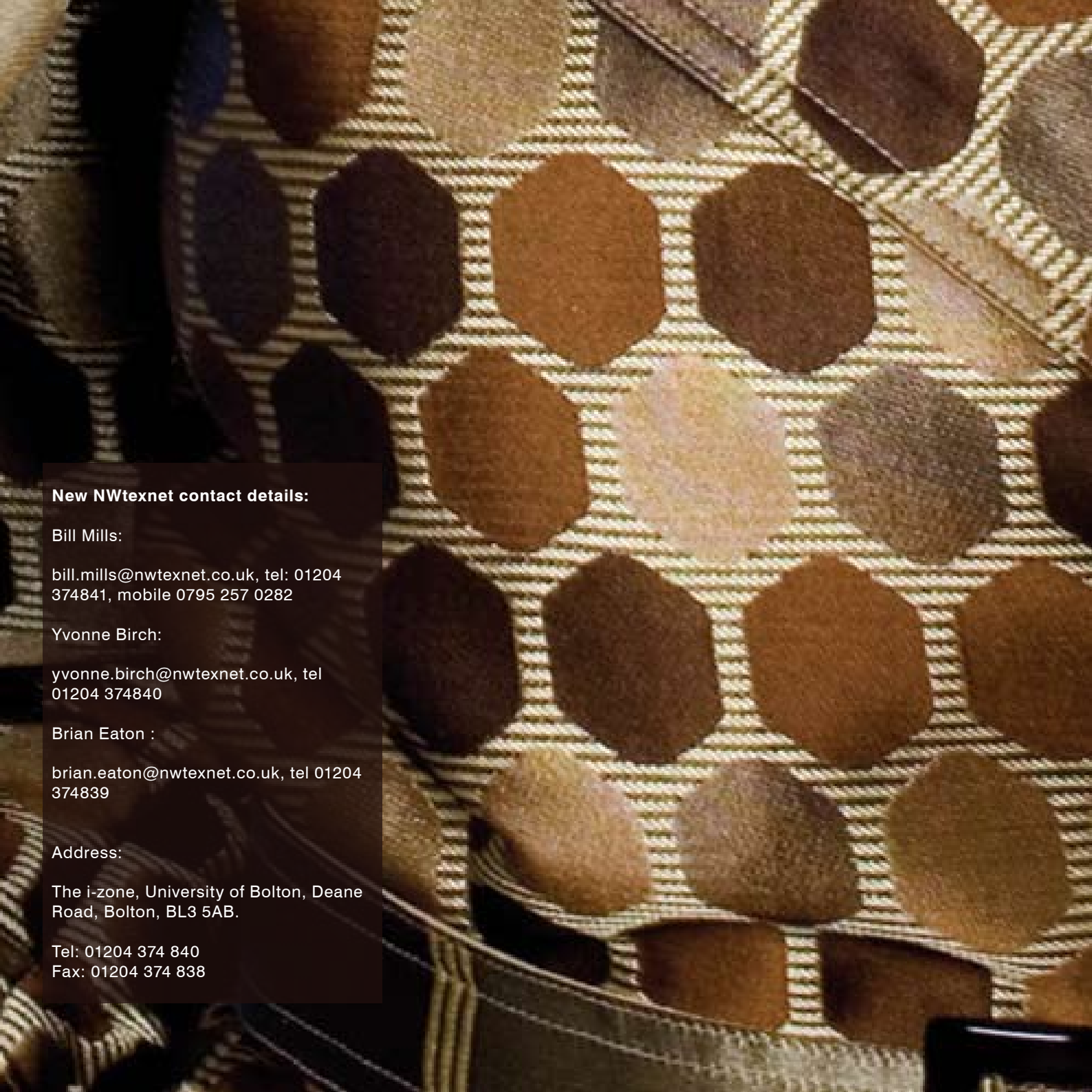
India beyond the numbers

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REGIONAL DEVELOPMENT AGENCY

INVESTING IN
englandsnorthwest



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Welcome to this 7th edition of THREAD.



We have successfully received another three years funding from the Northwest Regional Development Agency (NWDA) to support the Advanced Flexible Materials (AFM), technical textile sector in the NW. As a result of this you may have noticed the title of THREAD has now changed to TECHNICAL THREAD to echo this re-focus.

The NWDA has identified the AFM sector as an area which possesses a key international competitive strength as part of the Advanced Engineering and Manufacturing sector alongside the aerospace, automotive and chemical sectors. This change in emphasis will allow us to concentrate fully on exploiting the supply chain opportunities which exist for NW AFM companies within these sectors particularly in advanced materials and composites.

We have undergone some other changes recently; we have re-located our office into the i-zone in Bolton and recruited a new office manager Yvonne Birch.

I am also pleased to announce the appointment of Steve Kay (ex Skillfast) as our new Business Development Manager commencing June 12th, Steve brings with him a wealth of industrial experience and a good understanding of the public sector.

NW texnet have also been successful in receiving funding to continue our role as UK Technical Textile Export Promoter for the third consecutive year.

Contained within this edition of TECHNICAL THREAD is our proposed support programme for 2006/07, giving details of events etc to be held. Please contact us for further details

The cover shot in this edition is supplied by Panaz of Burnley. The garment is actually constructed using fabric from their La Scala range of contract furnishing fabrics and demonstrates both the versatility and style of the range.

A handwritten signature in black ink, appearing to read 'B. Mills'.

BILL MILLS
DIRECTOR, NWTEXNET

Interested in exporting to or trading with new and exciting countries?

Concerned about wasting time and money investigating markets that prove to be a dead-end for your business?

Would you like some background material as a taster before you consider sending someone out to a new market?

NWtexnet in collaboration with UNIDO have developed a tool which will give you background information on a wide and diverse range of new trading countries, this tool will help you make informed decisions on potential new markets without leaving your desk.

To access the internet based tool please go to www.nwda.co.uk/isc and click on the link at the bottom of this page which will take you to the UCAT page.

Auxetics – Where Smart Materials meet Technical Textiles

Most people have never heard of auxetic materials, however, they have been the focus of attention in certain scientific circles for about twenty years now. On the face of it, their behaviour is counterintuitive, for while most things get thinner when they're stretched, auxetic materials get fatter.

Auxetix Ltd. have developed novel ways to make auxetic threads and fabrics for use in a wide variety of applications. These are based on their patented helical-winding geometries. This is a simple, and yet highly effective way of getting auxetic behaviours from conventional materials. Items made from these auxetic components demonstrate some very unusual features. These include fabrics that change colour with tension, threads with knots that don't slip dental floss with in-built drug release, and various blast-protection devices.

Auxetic materials therefore offer potential solutions to many everyday problems. As an example, consider how a passenger seat belt behaves in a vehicle collision. In an accident, the passenger is usually thrown forwards, and if the deceleration is particularly

dramatic, the forces involved can be enormous. In attempting to restrain this movement, the seat belt gets stretched and, much like an elastic band being pulled becomes narrower.

This is exactly the opposite of the behaviour that you want at such a critical time, for in getting narrower, it concentrates all the forces into a much smaller area. In a healthy adult, this can cause significant abrasion traumas. For someone who is elderly, pregnant, or very young, such injuries can be much more serious. An auxetic seat belt, however, would get wider – this would spread the loads over a much larger area, potentially reducing the extent of any injuries experienced.

In an alternative example, consider what happens when a securing thread is loaded. This may be something as simple as a shoe lace, or it could be a stitching thread on a parachute. It might even be a medical suture. In all of these situations, there are two issues where the auxetic effect could be beneficial. Firstly, there is the problem of thread slippage, and secondly, there is the propensity for the securing knot to come undone. Having your shoelaces come untied may not be a major drama, however, if a stitching thread





If you stretch a piece of bungee cord...



It just gets thinner...

But wrap a cord around the bungee..

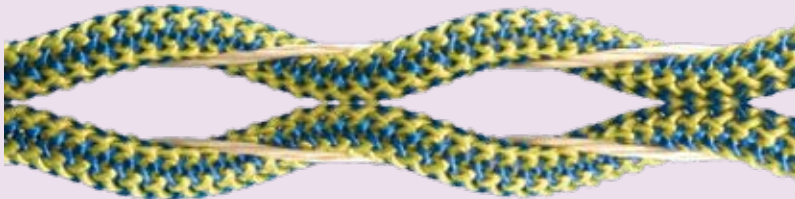


...and then stretch it...



...it effectively gets wider...

...when paired it forms...



...an auxetic structure

works loose from a parachute cord, or an eye suture comes undone, it is going to be very bad news indeed for the end-user. In all these examples, the fact that the thread gets thinner as it is pulled makes it easier for the failure to occur. If, however, the threads were auxetic, they would expand as tension was applied, and effectively lock themselves in place, preventing both knot and stitch slippage.

An alternative implementation is to use an auxetic net to make a blast-protection device, such as a window curtain. The concept here is very simple – since blast fronts carry enormous amounts of energy, there is little point in trying to physically block them with rigid barriers. In order to make them effectual, they would have to be so large that one might as well wall up the window. Instead, the idea is to let the actual pressure front pass through the curtain, but prevent any flying debris from following it. The problem, however, is that when curtains made from conventional net-like fabrics are subjected to a blast, the material becomes stretched, and the holes either close up or tear apart.

Once the fabric has torn, any hope of successfully trapping shrapnel is lost. Under the same circumstances, however, the holes in an auxetic net would open up, allowing the blast to pass through, hopefully leaving the curtain itself intact. In this instance, the helical windings would be made of a high-strength fibre, such as steel, titanium, carbon or aramid.

Auxetic Ltd offer the technology through formal licensing arrangements and they would be very interested in discussing the developments with interested parties – in the meantime, there is further information at www.auxetix.com, or you can contact them on 01884 861522.

Innovation for Extremes Conference

This 4th annual conference on 27th September 2006 has a new name, new venue and an evolving agenda which builds on the past success of our Clothing for Extremes conferences

New venue - superb facilities at new Lancaster Leadership Centre, Lancaster University Management School, with space for an innovation exhibition

alongside the conference for student projects and commercial displays with a real innovation story to tell.

Why come to Innovation for Extremes?

- For new idea generation for future innovation, whether manufacture or retail.
- To develop better and deeper understanding of products and materials.
- As trade shows decline this is a major networking opportunity. Previous conferences have attracted nearly

100 participants. There is no other innovation conference in world outdoor sports products.

What does Innovation for Extremes offer?

- a number of technical, conceptual and evolutionary presentations alongside an expert panel of outdoor journalists, outdoor testers and retailers.
- Student design project exhibits - already agreed are performance sport-wear designs from the Universities of Derby and Leeds and an invitation is extended to others.



India beyond the Numbers- Are you ready?

The numbers on India are now a daily feature in newspapers – 1000 million population, 300 million middle class, largest young working population, 8 % growth, 700000 call centre employees etc etc etc.

These numbers which we read here no doubt show the potential there is in India.

But India is however more than just numbers.

It is one of the most complex societies to market too.

Just consider the following facts:

There are 18 different main languages spoken in India and hundreds of regional dialects.

There are 28 regional states. It has been said that the states of India are more diverse than the countries in Europe. From

the largest to the smallest, each has a unique history and culture, dress, festivals and way of celebrating them.

It has a very vibrant and colourful political life between the states and the centre.

Indians drink hot milk- a simple fact that the worlds leading multinational cereal maker failed to see and ended up spending huge amounts to sell cold milk cereal to Indians.

It may just have the world's largest vegetarian population.- A fact which McDonald's was very quick to accept and thus created one of the most successful local menu's and crafted one of the few success stories of a multinational corporation in India in recent years

Though it is a cricket crazy country- even the local press in small towns like Bhopal reports in full page the exploits of Man Utd..

It is a country which as recently as 1985

- Relevant company displays for new products/services with a strong innovation story.

Speakers will include : Bill Mills (NWTextNet) - Mark Pedley (SMARTLIFE Technology Ltd) - Dave Brook (University of Leeds) - Mick Farnworth (Mammut Ltd Switzerland) - Mike Parsons (OMM Ltd and IEED) - Mary Rose (IEED) – and a speaker from Eleksen the UK based world leader in textile interfaces who created the keyboard for the MS Origami.
www.innovation-for-extremes.org



had a choice of just 2 cars to buy from with a waiting period in some cases of 7-8 years to get a car. However, Ford, Fiat, Mercedes and Peugeot had problems when they tried to sell to Indians their old models.

The Indian consumer cannot be taken for granted and is not any more in awe of “things foreign if they are not up to the mark”.

What are the opportunities that India offers from Technical Textiles Perspective?

The Indian opportunity would come under to 3 broad categories:

1. A competitive sourcing base for products and services

With a large entrepreneurial pool of people aided by favourable government policies who have finally decided that

for the industry to effectively compete with China it will have to remove the populist agenda from its policy and give Industry what it needs- this is helping India to become a good sourcing base for selected products – textiles is one of them.

Tie ups with good companies in India for outsourced manufacture can create a very complementary relationship to the high tech processing and marketing of local European companies.

2. Market for goods and services.

With heightened awareness, high disposal income, rising aspiration and overseas travel becoming very common – the demand for new and new things is ever increasing- from HiVis clothing ,protective clothing, smarter work wear etc.

3. Highly underdeveloped core infrastructure.

A very low level of world class infrastructure – offers a growth opportunity for Geotextile companies

The Indian port and shipping sector is planning to invest close to US \$ 22 billion on upgrading and expanding this sector. Nearly US \$ 3 Billion is sanctioned for upgrading just 2 of the main Indian airports – Bombay and Delhi.

A new rail corridor at a cost of US \$ 14 Billion to help improve freight movement is under construction. The Indian National Highways Project is underway which aims to provide 24,000 km of national highways.

Nwtexnet will be conducting a scoping visit on the Indian technical textile market in November 2006, the results of which will be published in THREAD.

News

The 4th edition of Techtextil North America took place March 28-30 in Atlanta, Georgia. The event proved to be the most successful yet with a record number of buyers and exhibitors. The show hosted 329 exhibitors representing 23 countries with over 4000 visitors from 43 countries

Vernon-Carus is a dynamic healthcare group based in Central Lancashire with a turnover of £ 43 million and an employment of around 400 of which about half are located locally. The company supplies both the NHS and private sector with a number of leading brands such as X-Ray detectable gauze swabs and continues to be at the forefront of product development and innovation. Founded over three-quarters of a Century ago the company took the decision to relocate the sales office and production facilities from Penwortham Mills, Preston to Matrix Park in Chorley. Significant as that is there is more impressive development here. Indeed this April was the formal opening of the company's ASSURE tm Sterile Services, the

first unit of its kind operational in England. Vernon-Carus has astutely anticipated NHS requirements and can now provide hospital operating theatres with the very latest in service and performance.

Advanced Medical Solutions Group PLC announced in late March that its two UK manufacturing facilities had both been registered to the very latest version of ISO 13485, the international standard covering quality systems for medical device manufacturers. One of the facilities was in Plymouth in the South West whilst the other key unit was at Winsford in Cheshire. In the latter factory a full range of advanced woundcare dressings are produced sold either through branded partner, private label or direct into the NHS under ActivHeallR brand. The Group secured an 18% increase in sales in 2005 and, according to Chief Executive Don Evans, are well positioned for further organic growth.

The name of Shiloh is one that is firmly

based in the textile traditions of North West England having originated as a cotton spinning company in 1874. In 2005 it was acquired by Derby-based Synergy Healthcare in order to strengthen the latter's Patient Care business. The new parent has been pleased with the better than anticipated performance of the former Shiloh operation at Oldham. In fact, it was announced in spring 2006 that the latter had been selected as the preferred bidder by the North West Sterile Services Partnership for the development of a new £ 5 million decontamination processing centre in Manchester. The latter is the outcome of a national initiative by the Department of Health to improve the quality of patient care by reducing the risks associated with the decontamination and re-sterilisation of surgical instruments and equipment.

Advanced technical materials have a key role to play in virtually every sector of the economy. This point was recently brought home by the recent achievements

UK companies are losing their competitive edge

particularly when compared to their Western European counterparts, due to their reluctance to make use of the billions of pounds that are available through external funding.

Many UK companies are instinctively sceptical about grants, believing that obtaining the relevant information is extremely time consuming and that the burden of applying for and administering grants is too great. Even if companies do successfully make use of grants it is

often done so on an ad-hoc basis and in the majority of cases using limited number of schemes. In other European countries, acquiring grants has become part of a company strategy which creates a significant competitive advantage over companies that do not make optimum use of these incentives. This view is shared by Olaf Swanzy of PNO Consultants, Europe's leading grants consultancy, 'In the UK the use of grants is particularly poor, with recent research showing that despite 95% of SME's being aware of available funding, just 9% actually make use of it, of which 25% are successful. In comparison, the majority of companies on the continent irrespective of size and activity develop external funding

strategies that will ensure that optimal use is made of the opportunities provided by Grantor Bodies'.

Significant numbers of schemes are available in many different areas with over 1500 schemes available to companies in the UK alone. There is therefore a strong chance that an organisation would find funding programmes that are of relevance to the business. In particular, areas where there are an abundance of schemes are for projects that focus on innovation, energy reduction, investments, co-operation and training. It is a misconception that grants are only intended for social and cultural events and loss making businesses. External

of Manchester-based French Trading, a company that makes products from memory foam, a substance originally developed by NASA for their Space programme. The business started by David French and Peter Robinson in 1996 and now owning a manufacturing and distribution site at Ancoats in Manchester, has developed a mattress that is beneficial to people with back and sleeping problems. Although current annual turnover is already over £ 1 million recent press reports suggest that the company is hoping to achieve a figure of £ 3 million within five years. This is after securing design and supply contracts with Littlewoods, Argos, and shopping channel QVC. The company's strengths, well demonstrated in the health and retail sectors, are its manufacturing and machining capabilities. This enables it to make "almost anything that its clients commission" and follow growth markets. French Trading is keen to use regional skills and anticipates moving from being a general manufacturer of memory foam products to a brand.

funding is a government tool designed to stimulate organisations to execute projects that will assist in meeting ambitious government goals at local, national and European level. Rather than being a sign of weakness, these grants represent a quality mark from the government.

Due to the abundance of funding opportunities within the textile and materials sector, NWtexnet have recently teamed up with PNO Consultants (Europes leading grants consultancy) to assist its members make full use of the grants that are available. For further information please contact either Bill Mills at NWtexnet on (01204) 374 841 or Olaf Swanzy on (0161) 488 3485.

NWtexnet Events programme 2006/07

Event	Date
NWtexnet Industrial Advisory Panel Meeting	8th June 2006
Innovation cells launch event	4th July 2006
Seminar on TT opportunities in Singapore,	12th September 2006
UK pavilion at Textechtil Shanghai	19th – 21st September 2006r
NWtexnet Industrial Advisory Panel Meeting	21st September 2006
Czech Republic Scoping study	Early October 2006
Opportunities in the Aerospace sector seminar	24th October 2006
Attendance at Turkish Homeland Security Show	16-19th November 2006
Indian scoping study	Early November 2006
NWtexnet Industrial Advisory Panel Meeting	6th December 2006
Auxetic materials : Where smart textiles meet technical textiles	30th January 2007
Opportunities in the Automotive sector seminar	27th February 2007
Indian trade mission	March 2007 (tbc)
NWtexnet Industrial Advisory Panel Meeting	6th March 2007
Follow-on to Protective Clothing and Workwear "Meet the Buyer" event	20th March 2007
Russian trade mission	March 2007 (tbc)

Preferential export transactions via HSBC Bank plc Trade Services for members of North West Textiles Network

HSBC is pleased to offer preferential rates on Trade Services transactions for members of North West Textiles Network.

HSBC has been involved in international trade since its inception in 1865 and is your natural partner for exporting and importing. HSBC Bank plc is a member of the HSBC group which means we have access to a network of global offices and are ideally placed to add value for businesses operating internationally.

HSBC Trade Services pricing, service quality and swift processing are, we are sure you will agree, extremely competitive. HSBC has also been voted Best Trade Finance Bank UK 2006 by Global Finance magazine.

North West Textiles Network offer

- Discounted transactions:
 - Export Documentary Credits (DCs) advised and confirmed by HSBC
 - Export Bills for Collection via HSBC
- Access to a HSBC International Business Manager – an expert to help you with your international business needs.
- A 20% discount off your first transaction with Export-eze – see below.

Special pricing for members of North West Textiles Network

Members of North West Textiles Network will receive a discount on standard HSBC export processing charges for CONFIRMED Export DCs. Unconfirmed DCs may be advised through HSBC. Standard Tariff will apply.

A special price has also been negotiated for Export Bills for Collection.

Export Documentary Credits (Confirmed)	North West Textiles Network Price
Advising all credits	£30
Usance commission	No commission charged
Payment commission	0.1% (minimum £25). Applied to all presentations
Amendments	£20
Discrepancy fee	Variable – min. £20 for each set of docs FREE – if Export-eze service used (see below)
Interest on advances	1% p/a (+LIBOR)

Confirmation Charge 0.125% per quarter, min. £60, depending on issuing bank.

Export Bills for Collection	North West Textiles Network Price
Clean and documentary bills for collection	£30

All other charges as per our standard tariff, available from HSBC on request.

Further details

Contact HSBC Trade Services on 08455 858165*

*Normal operating hours, Monday – Friday (bank holidays excluded), 9 am – 5 pm.

Export-eze

If you don't want the hassle of export paperwork, you may be interested in Export-eze**.

Call 0845 8381836 or email exportenterprise@businesswest.co.uk quoting North West Textiles Network offer.

A 20% discount is offered for North West Textiles Network members first transaction.

**Export-eze is provided by Business West. Business West is a trading name of Bristol Chamber of Commerce and Industry Ltd (Company No. 00008752). Business West are solely responsible for the service provided by them and the manner of its provision. Business West are not an agent of HSBC Bank plc.

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June

- 2-3 BTTG Training Course** Introduction to textiles Manchester.
Contact: Dinah Wharton, Course Administrator
Tel: +44 (0) 113 259 1999 Fax: +44 (0) 278 0306
e-mail: djwharton@bttg.co.uk
- 6-7 Medical Polymers 2006** 5th International Conference on polymers used in the medical industry.
Renaissance Hotel, Cologne, Germany.
Contact Tel: +441939 250383 Fax: +441939 251118
e-mail: shumphreys@rapra.net Website: www.rapra.net
- 7-8 Nonwovens Symposium 2006**
Vienna, Austria. Contact Natacha Defeche
Contact Tel: +32 2734 9310 Fax: +32 2733 3518
e-mail: natacha.defeche@edana.org
- 7-8 High Performance Fibers 2006** Doubletree Crystal City Hotel, Arlington, Virginia.
Contact: Intertech Tel: +1 207781 9614
e-mail: www.intertechusa.com/hpf
- 7-11 Bandung Inter Tex 2006** The 7th Bandung International textile and garment machinery exhibition
Bandung Dirgantara Fairground, Jakarta, Indonesia.
Contact: PT Peraga Nusantara Jaya Sakti.
Tel: +62 216493717 Fax: +62 216390062
e-mail: info@peragaexpo.com
Website: www.peragaexpo.com

15-17 37th International Symposium on Nonwoven in Textiles Ljubljana, Slovenia.
Contact: Andrej Densar.
Tel: +386 1 2003261 Fax: +386 1 2003270
e-mail: andrejdensar@ntf.uni-lj.si Website: www.ntf.uni-lj.si

27-29 Absorbent Hygiene Products Training Course
EDANA Offices, Brussels.
Contact: Eva Fabbri, Management Assistant
Tel: +32 2740 1811
Fax: +32 2733 3518 e-mail: eva.fabbri@edana.org

27-02 ITM International Textile Machinery Exhibition Centre, Turkey.
Contact: Murat Cavdar Tel: +902125925992
Fax: +902125993882
e-mail: mcavdar@tekstilteknoloji.com.tr
Website: www.itm2006.com

July

2-4 ISPO summer Munich, Germany. Contact: Messe Munchen
GmbH Tel: +49 8994920600 Fax: +49 8994920609
Website: www.ispo.com

5-8 ShanghaiTex 2006 Textile Machinery Show Shanghai New International Expo
Centre of PR China Contact. Tel: +852 2516 3514
Fax: +852 2516 5024
e-mail: publicity@adsale.com.hk Website: www.2456.com

August

22-24 Nonwovens Training Course INDA Headquarters, Cary, NC, USA
Contact: INDA Tel: +1 919 233 1210
Fax: +1 919 233 1282
e-mail: info@inda.org Website: www.edana.org

September

- 5-7 Nonwovens Training Course** EDANA Offices Brussels.
Contact: Veronique Verboekhoven, Management Assistant. Tel: +32 2740 1810 Fax: +32 2733 3518
e-mail: Veronique.verboekhoven@edana.org
- 20-22 EDANA Outlook Disposables Conference** Dornbirn, Austria.
Contact: Veronique Verboekhoven. Tel: +32 2740 1810
Fax: +32 2733 3518.
e-mail: Veronique.verboekhoven@edana.org.
- 20-22 45th Dornbirn Manmade Fibers Conference**
Dornbirn, Austria.
Contact: Austrian MFI. Tel: +43 05572 36850
Fax: +43 5572 31233. e-mail: www.dornbirn-mfc.com
- 20-22 Composites Europe European Trade Fair & Forum for Composites.** Technology and Applications Exhibition Centre
Essen, Germany.
Contact: Mike Seidensticker. Tel: +49 (0) 211 90191 128
Fax: +49 (0) 211 90191 138.
e-mail: mseidensticker@reedexpo.de
Website: www.composites-europe.com
- 19-21 CINTe Techtexile** China Technical Textiles and Nonwovens Show.
INTEX, Shanghai, China. Contact: Lily Li Messe Frankfurt (HK)
Tel: +852 2238 9921
e-mail: textile@hongkong.messefrankfurt.com.
Website: www.techtexil.com
- 25-28 INTC 2006** Hilton Americas, Houston, Texas, USA.
Contact: INDA. Tel: +1 919 233 1210
Fax: +1 919 233 1282
e-mail: info@inda.org Website: www.edana.org

October

- 3-6 Textile Expo Russia 2006** The Exhibition Centre, Moscow, Russia.
Contact: ITE Group Plc Tel: +998 71 113 01 80
Fax: +998 71 151 21 64
e-mail: gulnoza@ite-uzbekistan.uz
- 3-5 Nonwoven Training Course** IDNA Headquarter, Cary, NC, USA.
Contact: IDNA Tel: +1 919 233 1210 Fax: +1 919 233 1282
e-mail: info@inda.org Website: www.edana.org
- 10-12 MTEX** International Trade Fair and Symposium For Technical Textiles in Vehicle Construction Chemnitz, Germany. Contact: Andre Rehn, Trade Fair Chemnitz.
Tel: +49 371 3938 Fax: +49 371 3938 509
e-mail: presse@messe-chemnitz.com
- 17-19 NeedlePunch 2006** Conference devoted to all aspects of needlepunch technology. Charlotte, North Carolina, USA. Contact: IDNA
Tel: 001 919 233 1210 e-mail: www.inda.org
- 17-21 CITME 2006** 10th China International Textile Machinery Exhibition.
China International Exhibition Centre, Beijing, China.
Contact: Hong Kong Expositions Ltd.
Tel: +852 285 42313 Fax: +852 281 50073
e-mail: info@citme.org Website: www.citme.org

24-25 Filtrex 06 Filtration Conference. Arabella Sheraton Grand Hotel.
Munich, Germany. Contact: Natacha Defeche
Tel: +32 2 734 93 10 Fax: +32 2 733 35 18
e-mail: natacha.defeche@edana.org Website: www.edana.org

31 The Textile & Graphics Symposium Atlanta, Georgia, USA.
Contact: Deb Stender, IFAI. Tel: +1 651 225 6840
Fax: +1 651 631 9334 e-mail: dlstender@ifai.com

31-3 Megatex Joint ATME-I and IFAI Expo show. Textile Machinery Exhibition
And IFAI Industrial Fabrics Expo. Georgia World Congress Centre, Atlanta, Georgia, USA. Contact: Justin Akinleye. Tel: +1 866 414 4342
Fax: +1 1727 814400 e-mail: Justin@atme-i06.com
Website: www.atme-i06.com.

November

- 1 5th International Conference on Safety & Protective Fabrics** Atlanta, Georgia, USA. Contact: Emily Kinches, Industrial Fabrics Association International.
Tel: +1 651 225 6942 Fax: +1 651 631 9334.
e-mail: emkinches@ifai.com Website: www.ifai.com
- 11-12 International Conference on Technical Textiles** Delhi, India.
IIT Delhi. Website: www.testileconferenceiitd.com
- 12-14 Textile Expo India**
Nonwovens and technical textile show. New Delhi.
Contact: Cenk Olcayto. E-mail: c.olcaytu@textile-expo.com
Website: textile-expo.com

13-16 Absorbent Hygiene Products Training Course
EDANA Offices, Brussels.
Contact: Eva Fabbri, Management Assistant
Tel: +32 2740 1811 Fax: +32 2733 3518
e-mail: eva.fabbri@edana.org

16-19 NR Expo. Homeland Security Fair, Istanbul 2006.
An International Platform for the Experts of Security Professionals.
For more info log onto www.cnr-homelandsecurity.com

20 EATP. Information, Networking and Strategic Thinking for Member Companies Brussels, Belgium.
European Association for Textile Polyolefins.
Tel: +32 2 676 7472 Fax: +32 2 676 7474
e-mail: info@eatp.org Website: www.eatp.org

28-30 Filtration 2006 Philadelphia, Pennsylvania, USA
Association of the Nonwoven Fabrics Industry (INDA)
Info: www.inda.org/events/trains/nwcbrochure.pdf

29-30 Aachen Textile Conference 2006 Aachen, Germany.
Dr Brigitte Kuppers, DWI an der RWTH Aachen e. V
Tel: 0241/80 233 36 Fax: 0241/80 233 01
e-mail: contact@dwi.rwth-aachen.de
Website: www.dwi.rwth-aachen.de/atc05.html

December

5-7 Nonwovens Training Course EDANA Offices, Brussels.
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Fax: +32 2733 3518
e-mail: Veronique.verboekhoven@edana.org