



— 龍的絲 —

NDX

Top quality rubber thread in the world

NDX®



CERTIFICATE 認証

2-16-11, Kuramae, Taito-ku
Tokyo, JAPAN

Institute of the International Association
for Research and Testing in the Field of Textile Ecology

The company

NAIGAI CO., LTD.

7-8-5 Akasaka, Minato-ku

JP-Tokyo, JAPAN

is granted authorisation according to Oeko-Tex® Standard 100 to use the Oeko-Tex® mark, based on our **test report N-KEN 15028**



Tested for harmful substances
according to Oeko-Tex® Standard 100
N-KEN 15028 **Nissenken**

for the following articles:

**Rubber thread made of natural and/or chloroprene rubber latex,
dope-dyed in white, blue or black:
"RONDEX RUBBER THREAD NDX, SSDX, LKX"**

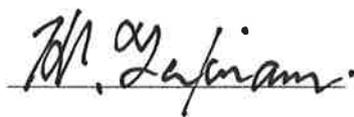
The results of the inspection made according to Oeko-Tex® Standard 100, **product class I** have shown that the above mentioned goods meet the human-ecological requirements of the standard presently established for baby articles.

The certified articles fulfil the requirements of Annex XVII of REACH (incl. the use of azo-dyes, nickel, etc.) as well as the American requirement regarding total content of lead in children's articles (CPSIA; with the exception of accessories made from glass).

The holder of the certificate, who has issued a conformity declaration according to ISO 17050-1, is under an obligation to use the Oeko-Tex® mark only in conjunction with products that conform with the sample initially tested. The conformity is verified by audits.

This authorisation is valid until 15.01.2017

Japan, 12.01.2016



Koji Takinami

General Manager, Oeko-Tex Laboratory

Nissenken Quality Evaluation Center



NDX-WORLD'S TOP QUALITY OF FITNESS AND DURABILITY

“NDX” is the **combination of natural and synthetic rubber latex**. It is a **high quality rubber thread** with high durability and great comfort.

Pursuit to durability- Insistence makes confidence...——

“NDX” is a blended rubber thread of natural and synthetic latex. **Hence it is much more durable than the one made by natural latex only.**

The top cuff part of clothing like socks usually deteriorates during wearing and washing. **“NDX”** can **solve this problem** with **its high level of durability.**

The comfort of fitness - The gentleness in socks ——

“NDX” is mainly used for clothing, especially socks.

If the tension of top cuff part of socks is too strong, it will cause pressure to skin. If it is too weak, socks will fall down easily.

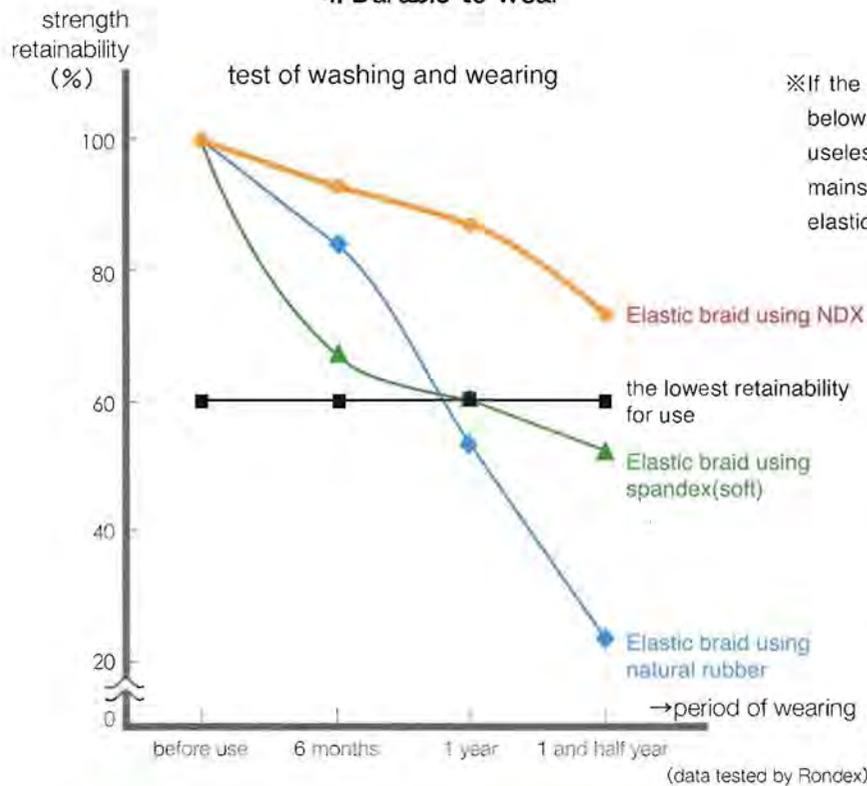
As **“NDX”** has the **most suitable stretch ability**, it is gentle to skin, not easy to fall down and has the **best fitness.**



DISTINGUISHED DURABILITY

“NDX” has the following advantages when compared with natural rubber and spandex.

1. Durable to washing (detergent, bleach)
2. Durable to ageing (deterioration of tension)
3. Durable to weather (light, ozone)
4. Durable to wear



※If the retainability rate for use goes below 60%,elastic braid will become useless as only fiber's tension remains and it can't work as proper elastic braid.

Contents of test

1. Washing(with water)test : One hour washing with Marseilles soap obtained at the rate of 0.5% to water of the temperature 95°C and rinse and dry.
2. Ageing test : (80°C X 24 hours tested by Geer oven ageing test apparatus)
3. Weather proof test : (Ultraviolet ray 3000 counts/hour, 24hours X 9 min/hour spray)
4. Wearing test : (450times stretching under 80% stretchability rate)
※One cycle=6 months

**Even under severe condition,
the superior durability can still perform well.
“NDX” guarantees it!**

“NDX” performs its distinguished durability even under bad condition.

test of washing and wearing

Deteriorated elastic braid

The rubber threads of elastic braid are broken when wearing.



before treatment



after treatment

Elastic braid without proper tension.

Though rubber threads are not broken,the elastic braid's tension is lost and can't restore back.



before treatment



after treatment

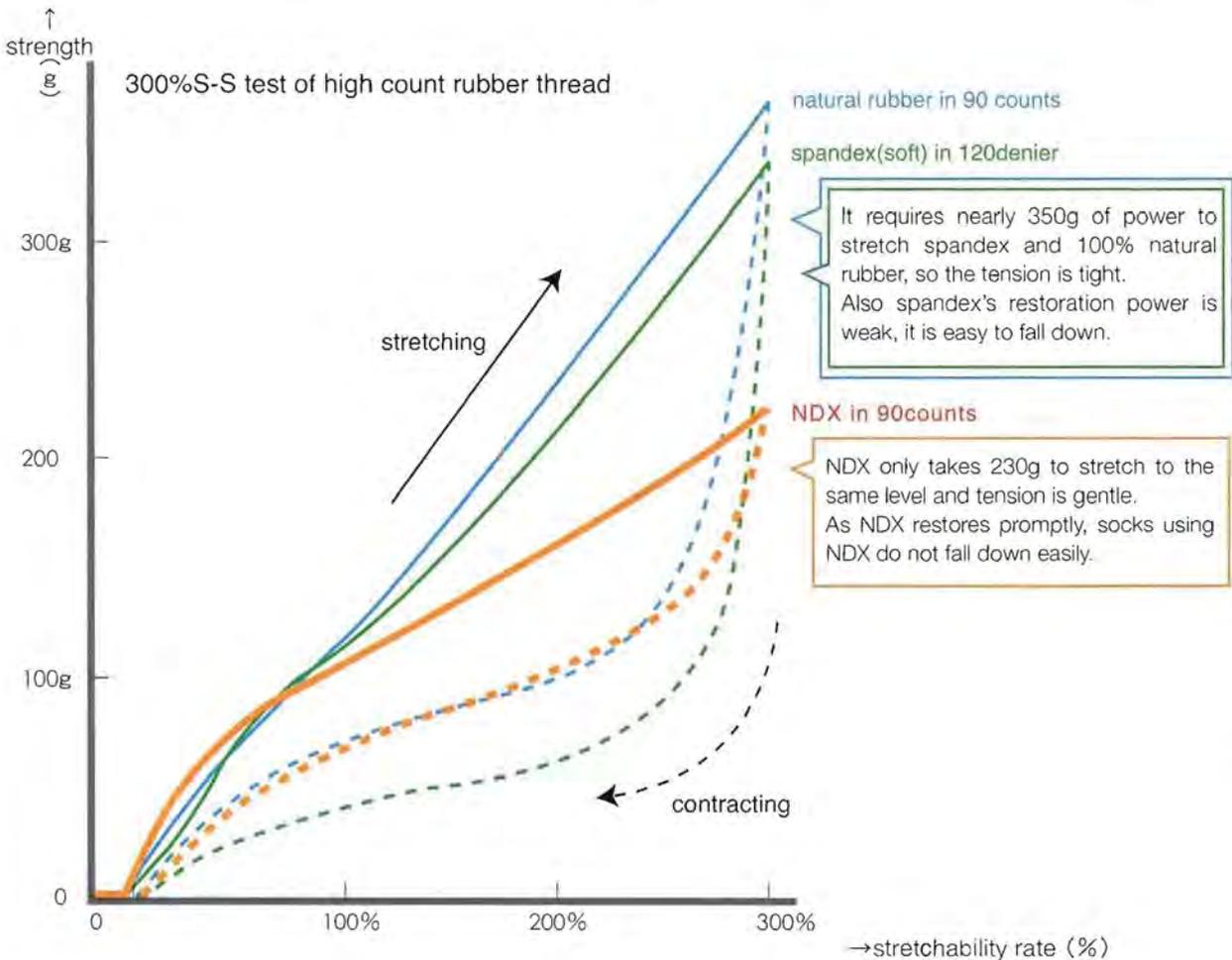
(Elastic braid sample of other company)

COMFORT OF FITNESS

Compared with natural rubber and spandex, **“NDX” stretches gently and shrinks promptly.** (Please refer to below S-S test graph)
 Therefore, socks made by **“NDX”** at the elastic part, don't tighten much and don't fall down easily. It is **comfortable when wearing.**

Comparison of each rubber thread used as the elastic part of socks.

NATURL RUBBER	SPANDEX(Soft)	NDX
<p>Since the tension is tight when wearing, it is easy to leave trace mark after socks are taken off.</p> 	<p>Pressure is felt when wearing. But as the restoration power is weak, it is easy to fall down.</p> 	<p>Stretches and shrinks gently, so it is not too tight and does not fall down easily.</p> 



High quality from high technology



Rondex Co., Ltd., a subsidiary company of Naigai Co., Ltd. (a Japanese Apparel Company), was established in 1947 and has been manufacturing rubber thread for over 60 years.

A new factory was established in Thailand in 2002. There are 2 Japanese staff stationing and producing "NDX" under strict quality control of ISO9001.

We are striving to manufacture high standard rubber thread with high technology.

History

- 1947 Naigai Rubber Thread Ind. Co. Established
- 1950 "Rondex" trademark registered
- 1954 Japanese Industrial standard specification obtained
- 1987 Company name changed to Rondex Co., Ltd.
- 1997 "Latex used for rubber thread production and its manufacturing method" patent(#2644972) obtained
- 2001 Merged with Naigai Co., Ltd.
- 2002 Thailand factory production started(July)
- 2004 Thailand factory achieved ISO9001(March)
- 2006 Shanghai Naigai Trading Co.,Ltd. Established (Jan.)



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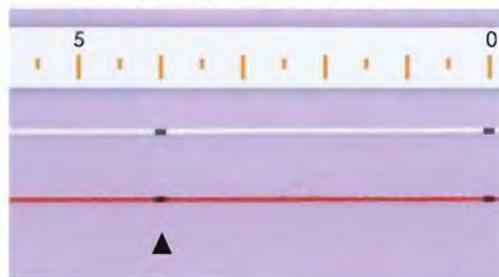
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PLEASE CHECK THE CHARACTERISTICS OF “NDX”

The secret to “comfort” lies in this difference.

When both “NDX” and normal spandex thread are stretched by 4 times and the threads restore back slowly after 1 minute. You can tell the difference!

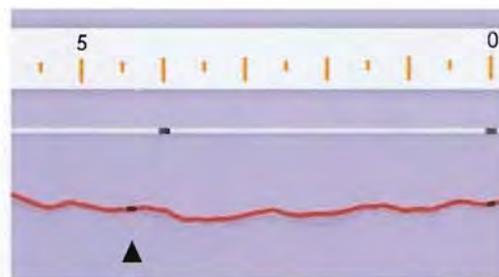
Normal spandex slacks off but “NDX” does not!!



before stretchability test

Covered yarn using NDX

Covered yarn using spandex(soft)



after stretchability test

Covered yarn using NDX

Covered yarn using spandex(soft)

