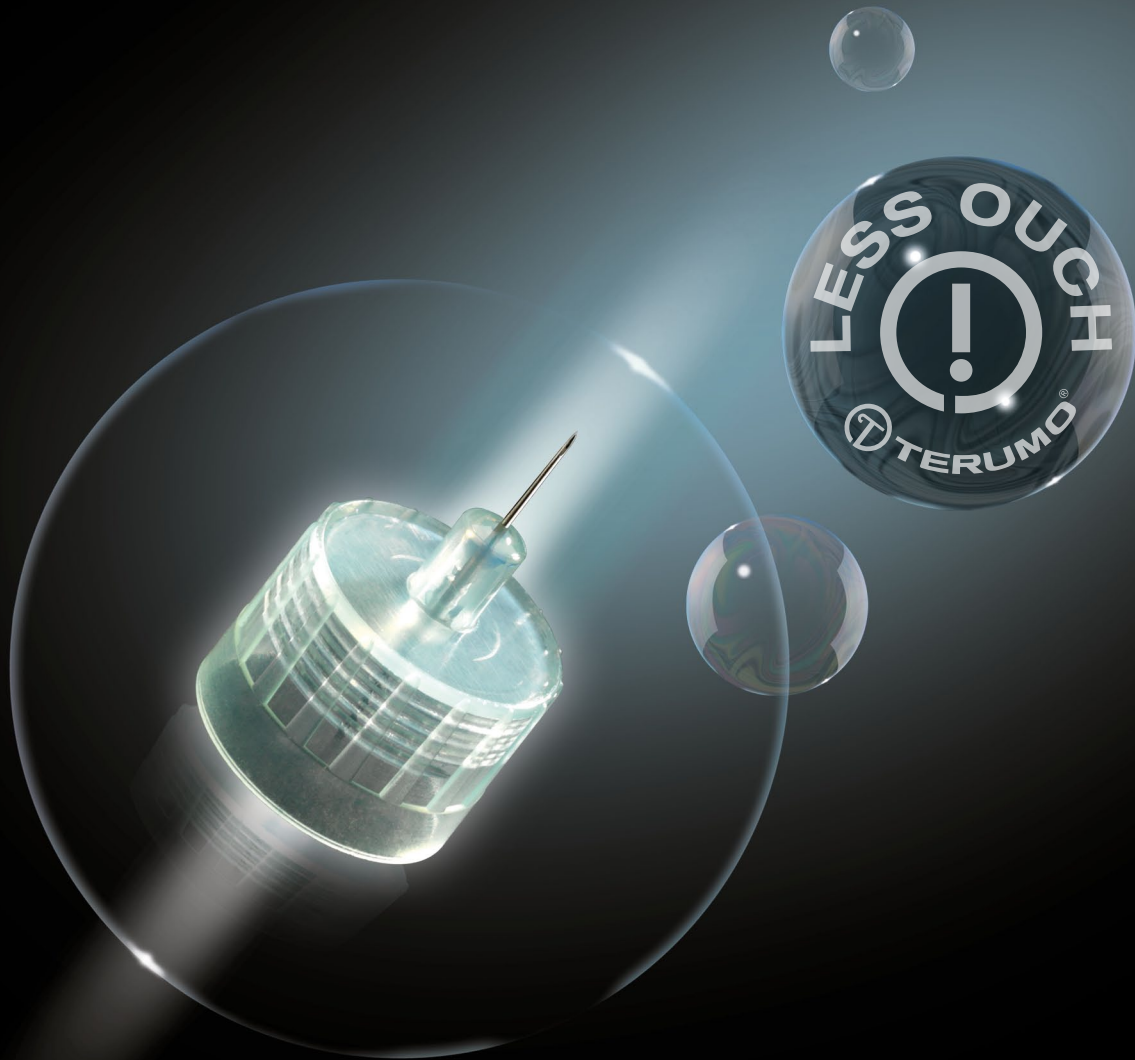


NANOPASS[®]

33

Needle for Pen-injectors

The World's Thinnest Pen Needle



TERUMO[®]
We keep life flowing

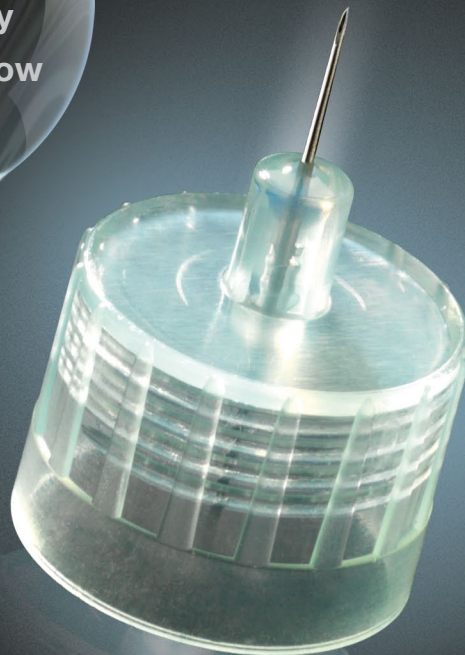
NANOPASS®

33

The World's Thinnest & First Double-Tapered Pen Needle

Double Tapered
new technology
optimal insulin flow

33G (Ø 0.2mm)
33% thinner than
conventional 30G
needle



One For All
compatible with all
pen injectors (Type A)

Less Ouch
easy injection
effective therapy

NANOPASS® 33 won the „Good Design Grand Prize“ (2005) of the
Japan Industrial Design Promotion Organization (JIDPO)



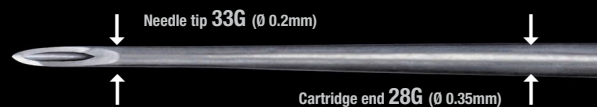
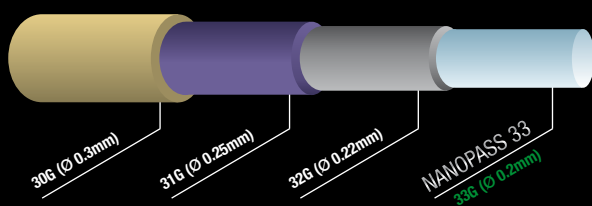
Making Insulin Therapy Less Painful



Diabetes patients have long dreamed of less painful insulin therapy. Now, Terumo brings that dream to life. The NANOPASS® 33 is in a class of its own when it comes to reducing the physical and mental strain of daily insulin therapy.

The World's Thinnest Pen Needle 33G (Ø 0.2mm)

The thinner an injection needle is, the **less scarring** and the **less pain** it causes.

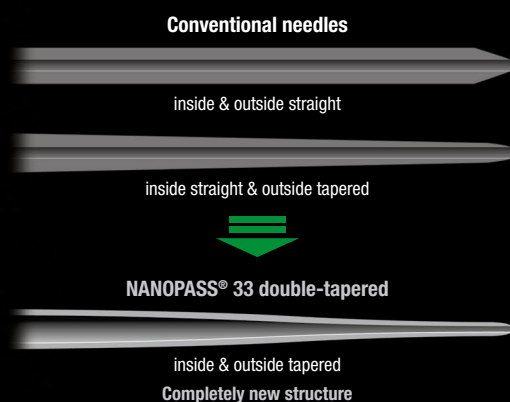


The World's First Double-Tapered Pen Needle

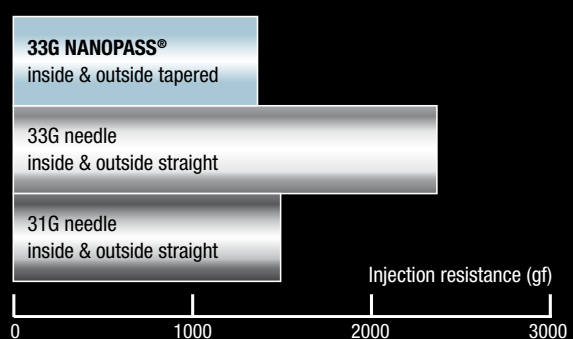
The thinner a needle is, the greater its injection resistance.

With the realization of double-tapered structure, NANOPASS® 33 has gone beyond conventional technology. Terumo's new technology made the realization of **injection resistance of 31G** possible with the thinnest 33G pen needle.

Needle Types



Comparison of Injection Resistance



2: Toshinari ASAKURA, Hiroaki SEINO, „Basic Study on a Micro-tapered needle (TN-3305) used for Insulin Pre-filled Products”, 2004, Japanese Journal of Pharmaceutical Health Care and Sciences, Vol.30, No.6

NANOPASS®

33



Product code: TN*3305M

Needle tip Ø: 33G (0.2mm)

Needle length: 5mm

Packaging size: 100 pieces

"TYPE A" ISO 11608-2



Protective seal



Pen needle with screw thread



Inner and outer needle cap



Dosage Test

The volume of the outer cap tip corresponds to 20 units of insulin.



European Headquarters

Terumo Europe NV
Interleuvenlaan 40
3001 Leuven, Belgium
Tel.: +33 16 38 12 11
Fax.: +33 16 40 02 49

European Offices

Terumo Europe NV
Benelux Sales Division
Interleuvenlaan 40
3001 Leuven, Belgium
Tel.: +32 16 39 25 80
Fax.: +32 16 39 25 99
The Netherlands:
Tel.: 0800 022 03 96
Tel.: 0800 022 04 14

Terumo Deutschland GmbH
Ludwig-Erhard-Strasse 6
65760 Eschborn, Germany
Tel.: +49 61 96 80 230
Fax.: +49 61 96 80 23 200

Terumo Italia SRL
Via Simone Martini, 143 / 145
00142 Roma RM, Italy
Tel.: +39 06 519 61 420
Fax.: +39 06 503 04 07

Terumo UK Ltd
Tamesis
The Causeway
Egham, Surrey
TW20 9AW, United Kingdom
Tel.: +44 1784 476 200
Fax.: +44 1784 476 201

Laboratoires Terumo France SA
Parc Ariane - Bât. Uranus
1 rue Hélène Boucher
78284 Guyancourt Cedex, France
Tel.: +33 1 30 96 13 00
Fax.: +33 1 30 43 60 85

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Any questions?

www.terumo-diabetes.com
toll free number 0800 988 4617