

Quality time for better care



PHARMACEUTICAL

Needle for pen-injectors

**NANOPASS™** 34G



**The World's Thinnest  
Double Tapered Pen Needle<sup>2</sup>**

# Because You Care

## Less Painful<sup>6</sup> insulin injection

Diabetes patients have long been in search of a less pain<sup>6</sup> insulin injection. Terumo has made this possible with the advanced NANOPASS™ 34G – the world's thinnest double tapered pen needle<sup>2</sup> with a diameter of only 34G.



## NANOPASS™ 34G aims to reduce pain<sup>3</sup> through several advanced technologies:

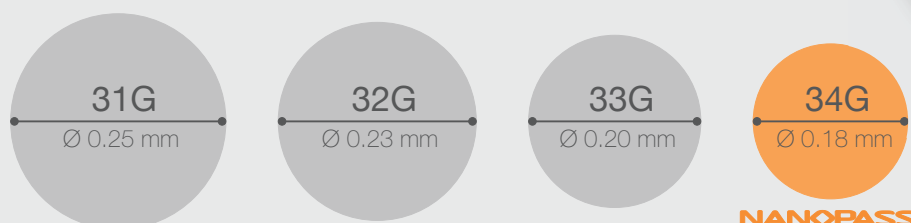
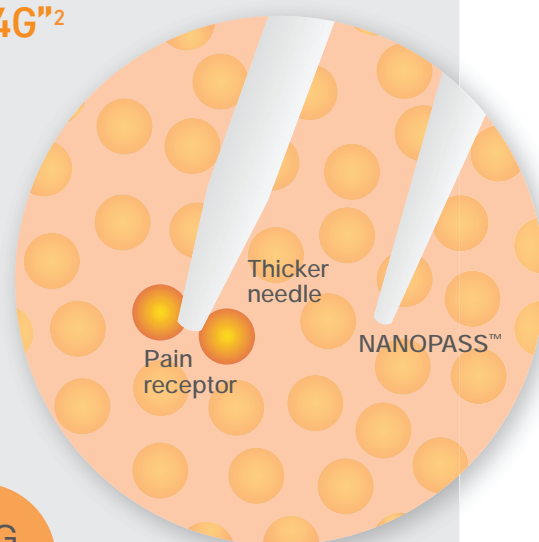
- 1 World's thinnest double tapered pen needle "34G"<sup>2</sup>
- 2 Asymmetric edge<sup>4</sup>
- 3 Slim double tapered shape<sup>4</sup>

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### World's thinnest double tapered pen needle "34G"<sup>2</sup>

NANOPASS™ 34G is 22% thinner than 32G.

- Pain is primarily related to needle thickness. There are 100-200 pain receptors per cm<sup>2</sup> of human skin surface. NANOPASS™ 34G decreases the probability of touching the pain receptors and therefore makes the insulin injection likely less painful<sup>3</sup>.
- NANOPASS™ 34G causes less skin trauma than larger needle sizes, which results in less pain<sup>3</sup>.



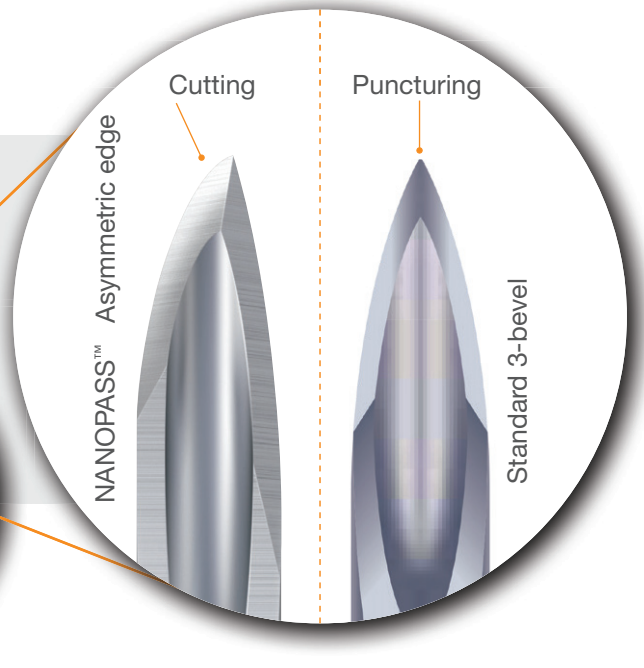
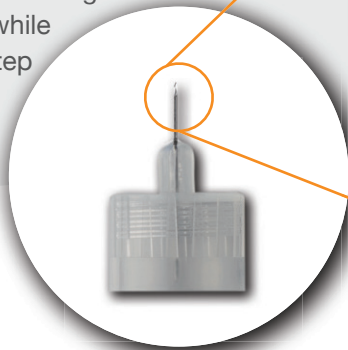
NANOPASS™

# Targeting on less pain<sup>6</sup>, every day

2

## Asymmetric edge<sup>4</sup>

The unique asymmetric edge<sup>4</sup> of NANOPASS™ 34G cuts the skin instead of puncturing it. This decreases the resistance while penetrating the skin. Another step towards less painful<sup>6</sup> insulin injection.



NANOPASS™

Inside & outside tapered



Conventional Needle

Inside & outside straight



3

## Slim double tapered shape<sup>4</sup>

The patented slim double tapered needle shape<sup>4</sup> reduces the insulin injection force significantly. Although the needle tip is 34G, NANOPASS™ 34G provides less injection force than a conventional 32G pen needle<sup>3</sup>. NANOPASS™ 34G combines less painful<sup>3</sup> injection with easy handling.

## Our challenging goal

Reduce the physical and mental strain of daily insulin injection. With NANOPASS™ 34G, Terumo delivers a smile to everyone looking for a more gentle insulin therapy.



# Pen needle fits all common pen-injectors.<sup>5</sup>



## Specifications

Product Code TN\*3404M

Needle tip diameter 34G (Ø 0.18 mm)

Needle length 4 mm

Packaging size 100 pieces



Protective seal



Pen needle with screw thread



Inner and outer needle cap



Does not contain components made of natural rubber latex.

Visit [www.terumopharmaceuticalsolutions.com](http://www.terumopharmaceuticalsolutions.com)

<sup>1</sup> Terumo Corporation launched Nanopass 34G in September 2012.

<sup>2</sup> Based on research by Terumo Corporation in November 2020.

<sup>3</sup> Asakura T., Seino H., 2013, Jpn J Med Pharm Sci 69(1):137-146. & Asakura T., 2013, Jpn J Med Pharm Sci 69(1):147-155.

<sup>4</sup> Patented technology.

<sup>5</sup> For a detailed list of compatible devices see NANOPASS pen needle boxes.

<sup>6</sup> Præstmark KA, Jensen ML, Madsen NB, et al. Pen needle design influences ease of insertion, pain, and skin trauma in subjects with type 2 diabetes. BMJ Open Diabetes Research and Care 2016;4:e000266. doi:10.1136/bmjdr-2016-000266.

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Terumo Europe N.V.  
+32 16 38 12 11

Terumo Corporation  
+81 3 6742 8500

Contact details are subject to change.  
Please consult our website.

Terumo Medical Corporation  
Phone: +1 732 302 4900  
Toll free (U.S.A.): +1 800 283 7866

[www.terumopharmaceuticalsolutions.com](http://www.terumopharmaceuticalsolutions.com)