

## Carefully Crafted



**NANOPASS<sup>®</sup>**  
Needle for pen-injectors

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

- Less painful<sup>3</sup> insulin injection
- Unique asymmetric edge<sup>4</sup>
- Patented slim double tapered needle<sup>4</sup>

[www.terumo-ps.com](http://www.terumo-ps.com)

Please note that some products may not be available in all regions, please check with your local TERUMO Pharmaceuticals Solutions contact for details.



# Because You Care

## Less painful<sup>3</sup> insulin injection

Diabetes patients have long been in search of less painful<sup>3</sup> insulin injection. Terumo has made this possible with the advanced NANOPASS 34 – the world's thinnest double tapered pen needle <sup>2</sup> with a diameter of only 34G.



### NANOPASS 34 reduces 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>

### Our challenging goal

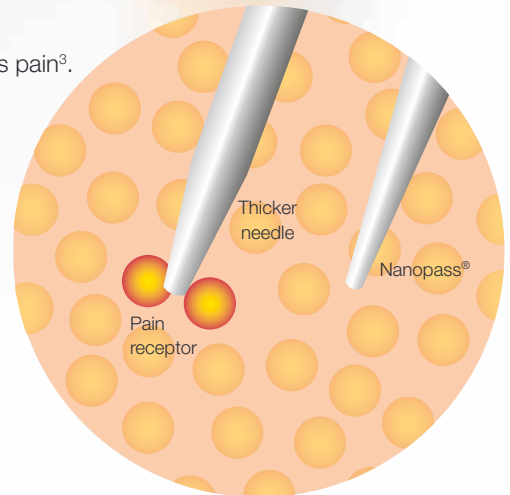
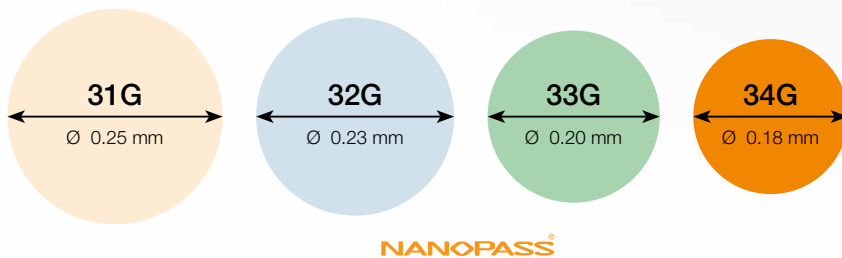
...reduce the physical and mental strain of daily insulin injection.  
With NANOPASS 34 Terumo delivers a smile to everyone looking for a more gentle Insulin therapy.



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

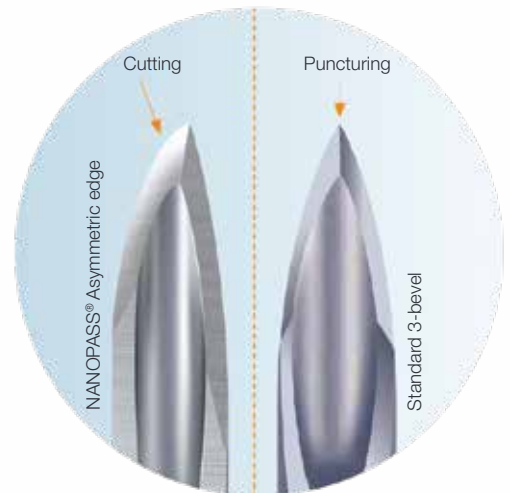
NANOPASS 34 is 22% thinner than 32G.

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



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

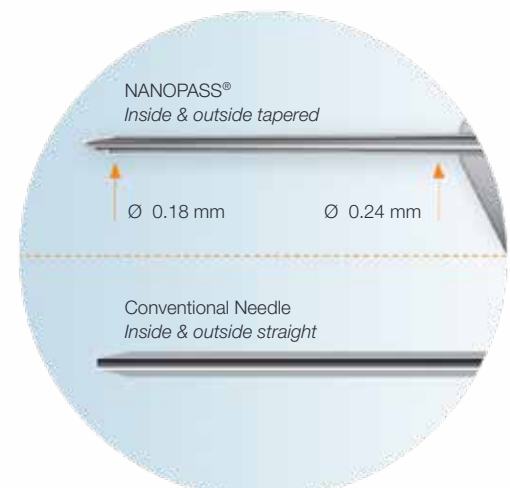
The unique asymmetric edge<sup>4</sup> of NANOPASS 34 cuts the skin instead of puncturing it. This decreases the resistance while penetrating the skin. Another step towards less painful<sup>3</sup> insulin injection.



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

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

NANOPASS 34 combines less painful<sup>3</sup> injection with easy handling.



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



### Specifications Nanopass<sup>®</sup> 34G (0.18 mm)

Product Code	Needle tip diameter	Needle length	Packaging size
TN*3404M	34G (Ø 0.18 mm)	4 mm	100 pieces

Does not contain components  
made of natural rubber latex.



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

<sup>2</sup> Based on research by Terumo Corporation in May 2017.

<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 detailed list of compatible devices see NANOPASS pen needle boxes.



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