



Special Thin-Wall Needle

Reducing injection force and delivery time to enhance the patient experience

Many factors contribute to the overall sensation of pain associated with an injection, from the location on the body to the injecting action and the nature of the formulation in terms of make-up and volume.

At Stevanato Group, patient needs are always at the forefront. As result, we developed our Special Thin-Wall (sTW) 25G, 27G and 29G ½" 5B needle with enlarged internal channel diameter, which optimizes the delivery of highly viscous drug formulations without the need for bigger needles.

SPECIAL THIN-WALL (sTW) NEEDLE

Addressing the Rise of Highly Concentrated Drugs for an Enhanced Injection Experience

Available Gauges	Thin Wall	Special Thin Wall
25G		
27G		
29G		

NEEDLE INNER DIAMETER
INCREASES REDUCING WALL THICKNESS

SHORTENING THE
NEEDLE LENGTH



Special Thin-Wall Needle

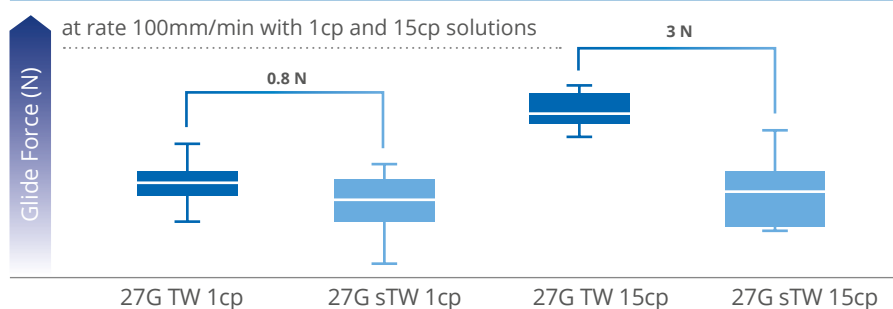
Reducing injection force and delivery time to enhance the patient experience

Evidencing the Correlation between Needle Diameter and Glide Force

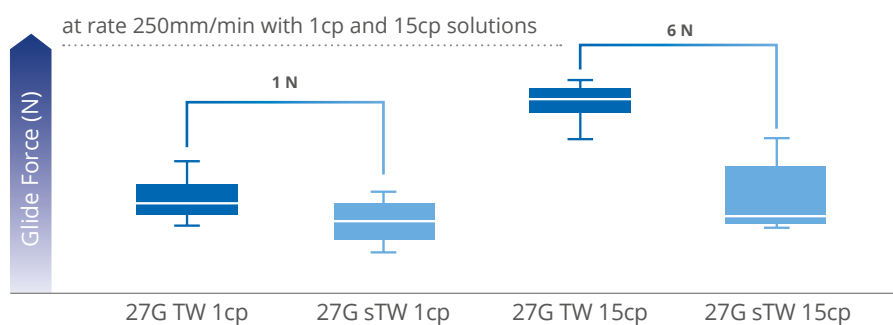
To analyze the comparative performance of the sTW needle against the standard Thin-Wall (TW) one, a series of tests was undertaken in-house, in our Technology Excellence Center.

As shown in the graphs below, the sTW needle registers an **improved gliding force** compared with the standard TW needle as the viscosity of the solution increases, thus confirming that the **sTW needle optimizes the delivery of highly viscous drug formulations**, avoiding the use of bigger needles.

GLIDE FORCE 27G TW VS sTW



GLIDE FORCE 27G TW VS sTW



SOURCE: TECHNOLOGY EXCELLENCE CENTER

MAIN FEATURES

Larger internal diameter, but **standard external dimensions**

Needle sizes

- Special Thin-Wall (sTW) needle: 25G, 27G and 29G ½" 5B
- Short needle (8mm): 27G sTW

Syringe formats

1ml and 2.25ml

Available closures

RNS FM30, 4900GS, 4800GS, 8550

Platforms

Nexa® and Alba®

Excellent gliding performance

or both manual and autoinjector applications

PREFERRED MARKET CHOICE



Biologics with high-viscous and/or high-volume formulation



Autoinjector application