





E-Pro® is an advanced metallurgical hypotube solution offering superior kink resistance over traditional '304 stainless steel', making navigation through tortuous anatomies safer. In thinwalled tube applications, E-Pro's® high kink resistance allows for larger internal diameters thus delivering reduced deflation times leading to a better product.

# E-PRO® BENEFITS

#### **Optimize For Procedure Safety**

- · Potential to reduce procedure time, contributing to patient safety
- High kink resistance reduces risk of failure
- Reduced inflation/deflation times

# **Improved Confidence**

- Increased kink resistance makes navigation through tortuous anatomies safer and easier
- Allows physicians to use higher forces to deliver solution

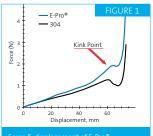
#### **Technical Data**

- Medical grade stainless steel hypotube
- Greater kink resistance without compromising pushability, trackability and torqueability
- Enhanced kink resistance enables:
  - Increase in inner diameter for better inflation/deflation time
  - Thinner walls to maximise trackability
  - Greater push and torque forces for better manoeuvrability
- More flexibility improves the 'feel' of the hypotube
- · Improved package set properties



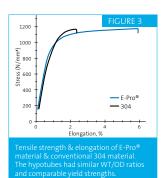


Higher kink resistance allows for an increase in inner diameter improving inflation/deflation time.

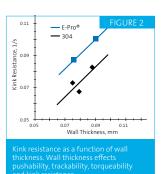


Force & displacement of E-Pro® material & conventional 304 material. The hypotubes had similar WT/OD ratios and comparable yield strengths.

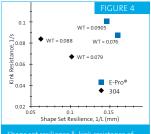
E-Pro® has higher kink point than 304 material allowing physicians to confidently use greater push and torque forces to progress the catheter.



E-Pro® exhibits higher elongation after yielding, preventing failure for longer so that the hypotube can be removed without undue trauma to the patient.



The kink space, s, is the distance between the plates when the force drops significantly. 1/s represents the resistance of the hypotube material kinking.



Shape set resilience & kink resistance of E-Pro® & conventional 304 material. L is the distance between a rule and the higher point of an arched hypotube after being stored for 2 hours in a 6 inch diameter coil.

Improved resilience means E-Pro® is less likely to retain shape of storage coil than 304 material.

### Do you have any questions?

Freudenberg Medical

Spiddal Business Park, Spiddal, Galway H91 TRF6, Ireland • +353 (0)91 504633 • infogalway@freudenbergmedical.com

