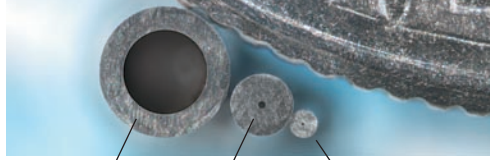
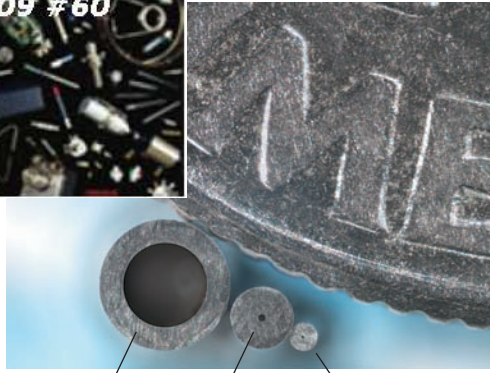




2009 #60

Electroformed Nickel Tubing



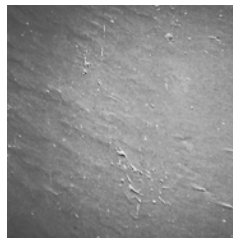
1/16" OD x .040" ID 1/32" OD x .004" ID 360 µm OD x .001" ID

Three sizes of electroformed nickel tubing

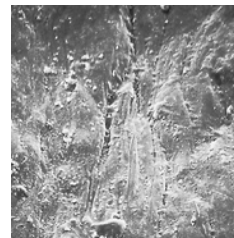
Our microbore EFNi tubing is made by electroplating nickel over a diamond-drawn mandrel in a continuous process. When the mandrel is removed, an internal surface with a mirror-like 1-2 microinch finish remains. The ductile nature of nickel allows the tubing to be easily manipulated. Unlike glass- or silica-lined stainless, EFNi can accept tight bends and cutting without heating, and does not release damaging glass fragments or silica particles.

A comparison of the interiors of commonly used tubing (below) shows the quality of the electroformed nickel tubing surface. (All photos are x500 magnification.) The rough interior surface of the mill-drawn Nickel 200 tubing has potential for carryover or cross contamination, and both the Nickel 200 and the stainless steel contain pits, voids, striations, and particles – problems which intensify as the ID decreases.

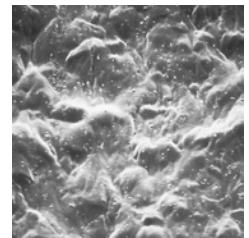
Custom IDs/ODs are available upon request.



Electroformed nickel (EFNi)



Nickel 200 alloy



Type 316 stainless steel

PRICING PER FOOT

For pricing purposes, the length is rounded up to the next foot. For example, a 5" piece is charged as one foot; an 18" piece as two feet. The price per foot is based on the length of each piece, not the total quantity ordered. Cutting and cleaning charges are included in the price per foot for EFNi tubing.

0.05 mm = .002"
0.10 mm = .004"
0.12 mm = .005"
0.25 mm = .010"
0.50 mm = .020"
0.75 mm = .030"
1.0 mm = .040"
1.5 mm = .060"
2.0 mm = .080"
4.6 mm = .180"
6.0 mm = .236"
6.4 mm = .253"
7.0 mm = .275"
10.0 mm = .400"
27.0 mm = 1.08"
1/32" = 0.8 mm
1/16" = 1.6 mm
1/8" = 3.2 mm
1/4" = 6.4 mm
3/8" = 9.5 mm
1/2" = 12.7 mm

360 µm OD EFNi tubing

Custom lengths

Prices are per foot. See pricing note in box at left.

Tubing ID	Prod No	Max length	1-9 feet	10-24 feet	25-50 feet
.001"	TEFNI.101	1 foot			
.002"	TEFNI.102	2 feet			
.004"	TEFNI.104	20 feet			
.005"	TEFNI.105	30 feet			
.007"	TEFNI.110	50 feet			

1/32" OD EFNi tubing

Custom lengths

Prices are per foot. See pricing note in box at left.

Tubing ID	Prod No	Max length	1-9 feet	10-24 feet	25-50 feet
.002"	TEFNI.502	2 feet			
.004"	TEFNI.504	20 feet			
.005"	TEFNI.505	30 feet			
.007"	TEFNI.507	50 feet			
.010"	TEFNI.510	50 feet			
.012"	TEFNI.512	50 feet			
.015"	TEFNI.515	50 feet			
.020"	TEFNI.520	50 feet			

1/16" OD EFNi tubing

Custom lengths

Prices are per foot. See pricing note in box at left.

Tubing ID	Prod No	Max length	1-9 feet	10-24 feet	25-50 feet
.020"	TEFNI120	50 feet			
.030"	TEFNI130	50 feet			
.040"	TEFNI140	50 feet			