

# Reinforced Platinum Cured Tubing



**CLARIPURE®'s Platinum Cured Silicone Tubing** was developed to meet the most stringent requirements of the life sciences industries. All tubing is manufactured in a state of the art **Class 10000 / ISO Class 7 Clean Room** environment.

Vertical extrusion techniques are employed in conjunction with continuous **laser measurement** to ensure the most exacting tolerances.

**Platinum Cured Silicone Tubing** is widely used for liquid media transfer and works well in Peristaltic Pump applications.

### Material Specifications: (Platinum Cured Silicone)

| Physical Properties                    | Value      | ASTM Test |
|--|------------|-----------|
| Specific Gravity                       | 1.15       |           |
| Hardness, Shore A                      | 50         | D 2240    |
| Tensile Strength psi (Mpa)             | 1200 (8.3) | D 412     |
| Elongation (%)                         | 720        | D 412     |
| Tear Resistance, Die B lbf./in. (KN/m) | 200 (35.1) | D 624     |
| Tensile Modulus @ 100% psi (Mpa)       | 250 (1.7)  | D 412     |
| Temperature Rating, Deg. F             | 400        |           |

For higher pressure applications or those with a need for improved kink resistance we also offer our platinum-cured braided silicone tubing. It is constructed using an inner and outer platinum cured silicone shell with a polyester inner braiding. The inner core is a softer (60 durometer, shore A) material for flexibility, while the outer shell is slightly harder (70 durometer, shore A) for strength.

### Sizing Chart

#### Silicone Platinum Cured Reinforced Tubing

| ID    | OD    | Wall  | Std. lenth |
|-------|-------|-------|------------|
| .125" | .345" | .110" | 50', 100'  |
| .187" | .407" | .110" | 50', 100'  |
| .250" | .490" | .120" | 50', 100'  |
| .375" | .625" | .125" | 50', 100'  |
| .500" | .800" | .150" | 50', 100'  |
| .625" | .965" | .170" | 50'        |
| .750" | 1.10" | .175" | 50'        |

### Applications

- Bio Process Equipment
- USP Water
- Hot WFI
- Sterile Transfer
- Cell-Culture Media
- Clean Steam
- Aseptic Fill and Transfer

### Benefits

- Superior Bio Compatibility
- Rated For High Temperatures(Steam in Place)
- Extremely Flexible
- No Taste or Odor Imparted
- Ultra-Pure Medical Grade
- Non-Pyrogenic
- Lot and Batch Traceable
- High Pressure Rating\*

### Sterilization

- Ethylene Oxide (ETO)
- Autoclavable
- Gamma Irradiation
- Steam in Place

### Certifications

- U.S. Pharmacopoeia Class VI
- ISO 10993-3
- Cytotoxicity Criteria
- Meets 3-A Standards
- CFR Title 21 Section 177.2600
- Current Good Manufacturing Practice
- Animal Derived Ingredient Free
- Traceability: Lot and Batch
- Certification: Lot and Batch

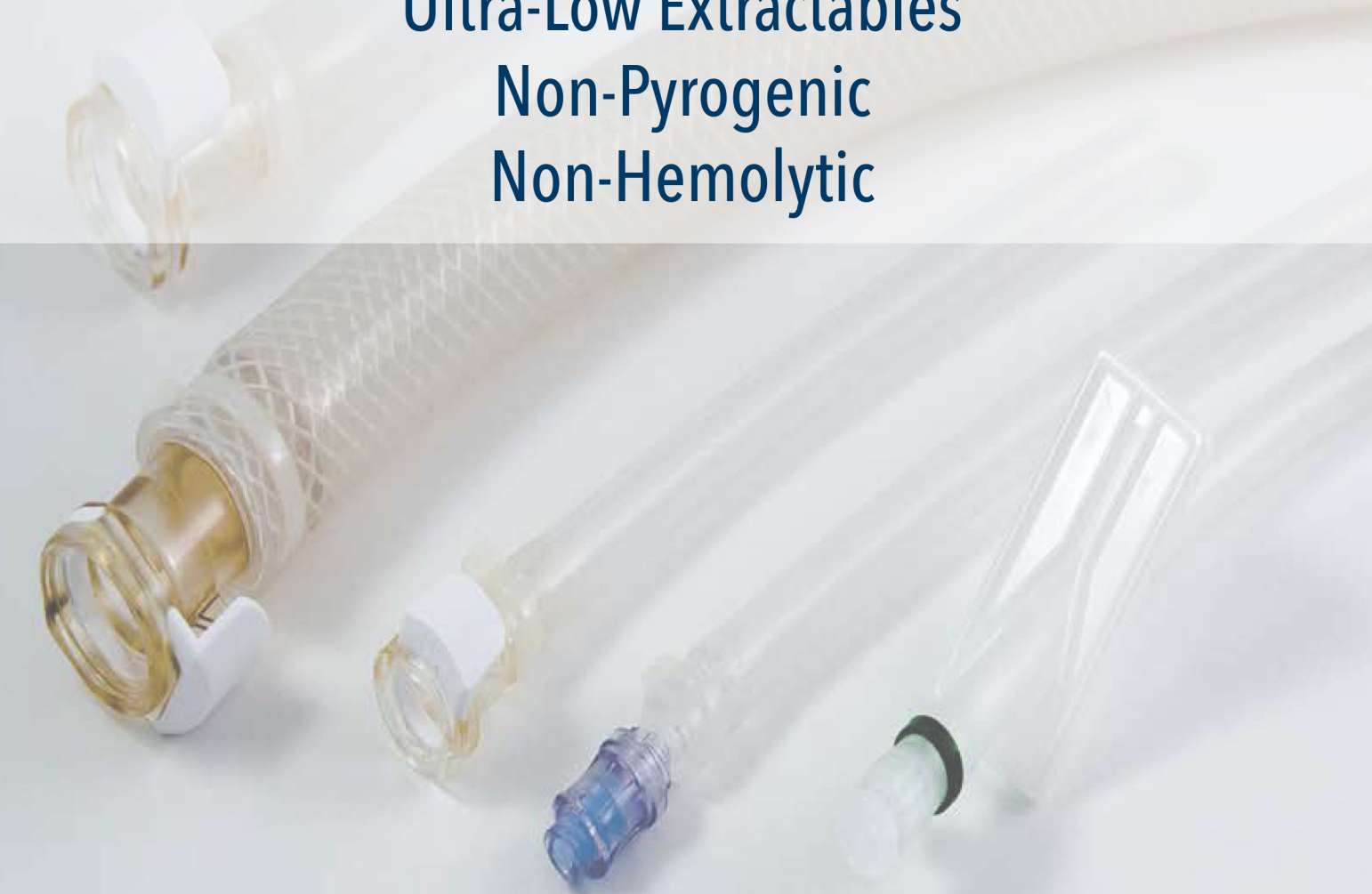
\*Denotes Braided only

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# Platinum Cured Silicone Tubing

Bio-Compatible  
Ultra-Low Extractables  
Non-Pyrogenic  
Non-Hemolytic



Life Sciences from FCX Performance, the authorized U.S. distributor of Claripure Products  
833-976-6083  
SingleUse@fcxperformance.com



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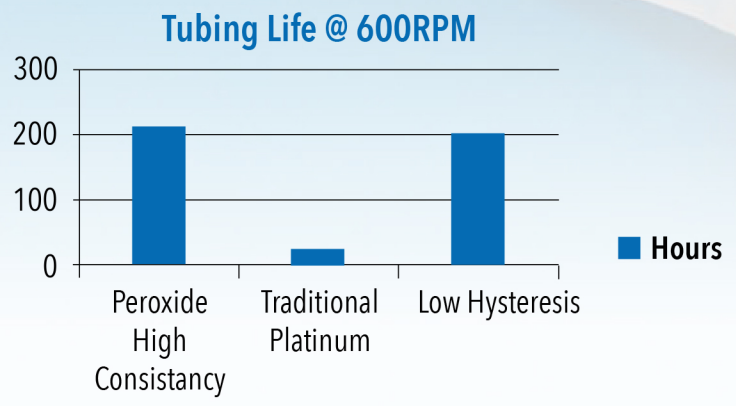
# Low Hysteresis Platinum Cured Tubing



We developed **Low Hysteresis** Platinum Cured Silicone Tubing for the most critical and exacting meter dose peristaltic pump applications. This tubing is manufactured from a specific platinum cured silicone compound that exhibits many unique characteristics which are not typical of other platinum compounds. The compound exhibits the mechanical properties of peroxide cured with the purity levels that only platinum compound can assure.

**Material Specifications:**  
**Low Hysteresis Platinum Cured Silicone**

| Physical Properties                    | Value | ASTM Test |
|--|-------|-----------|
| Specific Gravity                       | 1.11  |           |
| Hardness, Shore A                      | 50    | D 2240    |
| Tensile Strength psi (Mpa)             | 1100  | D 412     |
| Elongation (%)                         | 500   | D 412     |
| Tear Resistance, Die B lbf./in. (KN/m) | 100   | D 624     |
| Compression Set, % (22 hrs. @ 177C)    | 20    |           |
| Bayshore Resilience, %                 | 65    |           |
| Temperature Rating, Deg. F             | 400   |           |



**Sizing Chart**  
**Silicone Platinum Cured US Standard**

| ID     | OD      | Wall  | Pump Size | Std. lenth   |
|--------|---------|-------|-----------|--------------|
| .02"   | 0.144"  | 1/16" |           | 25',50',100' |
| 1/32"  | 3/32"   | 1/32" |           | 25',50',100' |
| 1/32"  | 5/32"   | 1/16" | #13       | 25',50',100' |
| 1/16"  | 3/16"   | 1/16" | #14       | 25',50',100' |
| 1/8"   | 1/4"    | 1/16" | #16       | 25',50',100' |
| 1/8"   | 5/16"   | 3/32" |           | 25',50',100' |
| 3/16"  | 5/16"   | 1/16" | #03, #25  | 25',50',100' |
| 3/16"  | 3/8"    | 3/32" | #15       | 25',50',100' |
| 1/4"   | 3/8"    | 1/16" | #17       | 25',50',100' |
| 1/4"   | 7/16"   | 3/32" | #24       | 25',50',100' |
| 1/4"   | 1/2"    | 1/8"  | #26       | 25',50',100' |
| 5/16"  | 3/8"    | 1/32" |           | 25',50',100' |
| 5/16"  | 7/16"   | 1/16" | #18       | 25',50',100' |
| 5/16"  | 1/2"    | 3/32" |           | 25',50',100' |
| 3/8"   | 1/2"    | 1/16" | #96       | 25',50',100' |
| 3/8"   | 9/16"   | 3/32" | #73       | 25',50',100' |
| 3/8"   | 5/8"    | 1/8"  | #81       | 25',50',100' |
| 1/2"   | 3/4"    | 1/8"  | #82       | 25',50',100' |
| 5/8"   | 13/16"  | 3/32" |           | 25',50',100' |
| 5/8"   | 7/8"    | 1/8"  |           | 25',50',100' |
| 3/4"   | 1-5/32" | 1/8"  |           | 25',50',100' |
| 3/4"   | 1-1/8"  | 3/16" | #90, #191 | 25',50',100' |
| 1"     | 1-1/4"  | 1/8"  |           | 25',50',100' |
| 1" 1-3 | 1/8"    | 3/16" | #92       | 25',50',100' |

**Sizing Chart**  
**Silicone Platinum Cured Metric**

| ID     | OD     | Wall  | Pump Size | Std. lenth |
|--------|--------|-------|-----------|------------|
| .5mm   | 3.7mm  | 1.6mm | #112      | 200'       |
| .8mm   | 4mm    | 1.6mm | #13       | 200'       |
| 1.6mm  | 4.8mm  | 1.6mm | #14       | 200'       |
| 1.6mm  | 6.4mm  | 2.4mm | #119      | 200'       |
| 3.2mm  | 6.4mm  | 1.6mm | #16       | 200'       |
| 3.2mm  | 8mm    | 2.4mm | #120      | 200'       |
| 4.8mm  | 8mm    | 1.6mm | #25       | 200'       |
| 4.8mm  | 9.6mm  | 2.4mm | #15       | 50'        |
| 4.8mm  | 11.2mm | 3.2mm | #123      | 50'        |
| 6.4mm  | 9.6mm  | 1.6mm | #17       | 50'        |
| 6.4mm  | 11.2mm | 2.4mm | #24       | 50'        |
| 6.4mm  | 12.8mm | 3.2mm | #26       | 50'        |
| 8mm    | 11.2mm | 1.6mm | #18       | 50'        |
| 8mm    | 12.8mm | 2.4mm | #121      | 50'        |
| 8mm    | 16mm   | 4mm   | #185      | 50'        |
| 9.6mm  | 14.4mm | 2.4mm | #122      | 50'        |
| 9.6mm  | 16mm   | 3.2mm | #73       | 50'        |
| 9.6mm  | 19.2mm | 4.8mm | #190      | 50'        |
| 12mm   | 20mm   | 4mm   | #186      | 50'        |
| 12.4mm | 18.8mm | 3.2mm | #82       | 50'        |
| 12.7mm | 22.3mm | 4.8mm | #88       | 50'        |
| 15.9mm | 22.3mm | 3.2mm | #184      | 50'        |
| 15.9mm | 29.5mm | 4.8mm | #189      | 25'        |
| 16mm   | 24mm   | 4mm   | #187      | 25'        |
| 19mm   | 28.6mm | 4.8mm | #191      | 25'        |
| 25.4mm | 35mm   | 4.8mm | #92       | 25'        |

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