## **NYLON TUBE - INDUSTRIAL (Category 14)**



Esdan Nylon Pressure tubing is made from high quality nylon. It has an excellent dimensional stability, is light and saves as much as 75% in weight over rubber hoses & steel lines. Esdan Nylon is used as a standard by many large original equipment manufacturers and industrial users in a wide range of applications. All pressure tubes are temperature & light stabilised. Esdan Nylon is highly resistant to corrosion and heat aging. It also fully resists gasoline, diesel, fuel, oil, grease, brake fluids and other chemicals. Esdan Nylon is easy to install, the tubing can be routed inside frame rails, around corners in continuous length, thus reducing the number of couplings.

#### **Imperial Tube Sizes**

|          | Si   | ze    | Burst F | Pressure | Working Pressure |      | Available  | Available                           | Insert  |
|----------|------|-------|---------|----------|------------------|------|------------|-------------------------------------|---------|
| Code     | O.D. | I.D.  | PSI     | kPa      | PSI              | kPa  | Lengths    | Colours                             | Code    |
| 14-N1102 | 1/8  | 0.087 | 1000    | 6890     | 250              | 1723 | 20,50,100m | Black, Natural, Blue, Red, Grn, Yel | 0199-02 |
| 14-N1103 | 3/16 | 0.125 | 1000    | 6890     | 250              | 1723 | 20,50,100m | Black, Natural, Blue, Red, Grn, Yel | 0199-03 |
| 14-N1104 | 1/4  | 0.169 | 1000    | 6890     | 250              | 1723 | 20,50,100m | Black, Natural, Blue, Red, Grn, Yel | 0199-04 |
| 14-N1105 | 5/16 | 0.214 | 1000    | 6890     | 250              | 1723 | 20,50,100m | Black, Natural, Blue, Red, Grn, Yel | 0199-05 |
| 14-N1106 | 3/8  | 0.258 | 1000    | 6890     | 250              | 1723 | 20,50,100m | Black, Natural, Blue, Red, Grn, Yel | 0199-06 |
| 14-N1108 | 1/2  | 0.347 | 1000    | 6890     | 250              | 1723 | 20,50,100m | Black, Natural, Blue, Red, Grn, Yel | 0199-08 |
| 14-N1110 | 5/8  | 0.495 | 500     | 3445     | 125              | 861  | 20,50,100m | Black, Natural                      | 0199-10 |
| 14-N1112 | 3/4  | 0.590 | 500     | 3445     | 125              | 861  | 20,50,100m | Black, Natural                      | 0199-12 |

### **Metric Tube Sizes**

|           | S    | ize    | Burst Pressure   Working Pressure |      | Available | Available | Insert     |                               |          |
|-----------|------|--------|-----------------------------------|------|-----------|-----------|------------|-------------------------------|----------|
| Code      | O.D. | I.D.   | PSI                               | kPa  | PSI       | kPa       | Lengths    | Colours                       | Code     |
| 14-NM1104 | 4mm  | 2.7mm  | 1000                              | 6890 | 250       | 1723      | 20,50,100m | Blk, Nat, Blue, Red, Grn, Yel | 32-M9904 |
| 14-NM1105 | 5mm  | 3.3mm  | 1000                              | 6890 | 250       | 1723      | 20,50,100m | Blk, Nat, Blue, Red, Yel      | 32-M9905 |
| 14-NM1106 | 6mm  | 4mm    | 1000                              | 6890 | 250       | 1723      | 20,50,100m | Blk, Nat, Blue, Red, Grn, Yel | 32-M9906 |
| 14-NM1108 | 8mm  | 5.2mm  | 1000                              | 6890 | 250       | 1723      | 20,50,100m | Blk, Nat, Blue, Red, Grn, Yel | 32-M9908 |
| 14-NM1110 | 10mm | 6.6mm  | 1000                              | 6890 | 250       | 1723      | 20,50,100m | Blk, Nat, Blue, Red, Grn, Yel | 32-M9910 |
| 14-NM1112 | 12mm | 8mm    | 1000                              | 6890 | 250       | 1723      | 20,50,100m | Blk, Nat, Blue, Red, Grn, Yel | 32-M9912 |
| 14-NM1114 | 14mm | 10.5mm | 1000                              | 6890 | 250       | 1723      | 20,50,100m | Black                         |          |

Larger reel sizes may be available. Please contact the sales team with your requirements

## **NYLON TUBE - SEMI RIGID INDUSTRIAL (Category 14)**



Semi Rigid Tube is a higher pressure tube typically used for lubrication applications. It is made from high quality nylon and has an excellent dimensional stability, is light and saves as much as 75% in weight over rubber hoses & steel lines. Esdan Nylon is used as a standard by many large original equipment manufacturers and industrial users in a wide range of applications. All pressure tubes are temperature & light stabilised. Esdan Nylon is highly resistant to corrosion and heat aging. It also fully resists gasoline, diesel, fuel, oil, grease, brake fluids and other chemicals.

|           | Size |       | Burst Pressure |       | Working Pressure |      | Available  | Available      | Insert     |
|-----------|------|-------|----------------|-------|------------------|------|------------|----------------|------------|
| Code      | O.D. | I.D.  | PSI            | kPa   | PSI              | kPa  | Lengths    | Colours        | Code       |
| 14-NSR02  | 1/8  | 0.078 | 2500           | 17225 | 625              | 4306 | 20,50,100m | Black, Natural | 0199NSR-02 |
| 14-NSR03  | 3/16 | 0.110 | 2500           | 17225 | 625              | 4306 | 20,50,100m | Black, Natural | 0199NSR-03 |
| 14-NSR04  | 1/4  | 0.147 | 2500           | 17225 | 625              | 4306 | 20,50,100m | Black          | 0199NSR-04 |
| 14-NSR05  | 5/16 | 0.186 | 2500           | 17225 | 625              | 4306 | 20,50,100m | Black, Natural | 0199NSR-05 |
| 14-NSR06  | 3/8  | 0.224 | 2500           | 17225 | 625              | 4306 | 20,50,100m | Black, Natural | 0199NSR-06 |
| 14-NSR08  | 1/2  | 0.303 | 2500           | 17225 | 625              | 4306 | 20,50,100m | Black, Natural | 0199NSR-08 |
| 14-NMSR04 | 4mm  | 2.4mm | 2500           | 17225 | 625              | 4306 | 20,50,100m | Black, Natural |            |
| 14-NMSR06 | 6mm  | 3.5mm | 2500           | 17225 | 625              | 4306 | 20,50,100m | Black, Natural |            |

# **NYLON AIR BRAKE TUBE - (Category 14)**



Esdan Air brake tubing is manufactured from nylon (polyamide) to meet requirements of SAE J844 and DOT FMVSS 571.106 specifications. It is developed specifically for air brake applications but can also be used in a wide range of instrumentation and air systems.

Type A tubes are of single wall construction. Type B tubes have a double wall construction with a nylon core, synthetic fibre braid and a nylon cover.

It is manufactured out of heat and light stabilized nylon, has good flexibility and a wide range of operating temperatures  $-40^{\circ}$ F to  $+200^{\circ}$ F ( $-40^{\circ}$ C to  $+80^{\circ}$ C)

### J844A Single Wall Airbrake Tube

|           | Si   | ze    | Burst F | Pressure | Working Pressure |      | Available  | Available                        | Insert    |
|-----------|------|-------|---------|----------|------------------|------|------------|----------------------------------|-----------|
| Code      | O.D. | I.D.  | PSI     | kPa      | PSI              | kPa  | Lengths    | Colours                          | Code      |
| 14-SWJ02  | 1/8  | 0.078 | 1000    | 6900     | 150              | 1000 | 25,100m    | Black, Blue, Red                 | 34-99JA02 |
| 14-SWJ025 | 5/32 | 0.092 | 1200    | 8300     | 150              | 1000 | 100m       | Black, Blue, Red, Green, Yellow  |           |
| 14-SWJ03  | 3/16 | 0.117 | 1200    | 8300     | 150              | 1000 | 50,100m    | Black, Blue, Red, Green          |           |
| 14-SWJ04  | 1/4  | 0.170 | 1200    | 8300     | 150              | 1000 | 25,50,100m | Blk, Blue, Red, Grn, Yel, Orange | 34-99JA04 |
| 14-SWJ05  | 5/16 | 0.232 | 1000    | 6900     | 150              | 1000 | 25,50,100m | Black, Blue, Red                 | 34-99JA05 |

### J844B Braided Imperial Airbrake Tube

|         | Si   | ze    | Burst I | Pressure | Working Pressure |      | Available      | Available                    | Insert    |
|---------|------|-------|---------|----------|------------------|------|----------------|------------------------------|-----------|
| Code    | O.D. | I.D.  | PSI     | kPa      | PSI              | kPa  | Lengths        | Colours                      | Code      |
| 14-BR06 | 3/8  | 0.251 | 1410    | 9700     | 150              | 1000 | 25,50,100,250m | Black, Blue, Red, Green, Yel | 34-99JB06 |
| 14-BR08 | 1/2  | 0.376 | 960     | 6600     | 150              | 1000 | 25,50,100,250m | Black, Blue, Red, Green, Yel | 34-99JB08 |
| 14-BR10 | 5/8  | 0.441 | 900     | 6200     | 150              | 1000 | 25,50,100m     | Black, Blue, Red, Green      | 34-99JB10 |
| 14-BR12 | 3/4  | 0.566 | 800     | 5500     | 150              | 1000 | 25,50,100m     | Black, Blue, Red, Green      | 34-99JB12 |

#### DIN74324 /J844A Metric Single Wall Airbrake Tube

|             | Si   | ize   | Burst I  | Burst Pressure Workin |     | Pressure | Available  | Available               | Insert    |
|-------------|------|-------|----------|-----------------------|-----|----------|------------|-------------------------|-----------|
| Code        | O.D. | I.D.  | PSI      | kPa                   | PSI | kPa      | Lengths    | Colours                 | Code      |
| 14-SWM04    | 4mm  | 2mm   | 1200     | 8300                  | 150 | 1000     | 25,50,100m | Black                   |           |
| 14-SWM06    | 6mm  | 4mm   | 1200     | 8300                  | 150 | 1000     | 25,50,100m | Black, Blue, Red, Green | 34-99DS06 |
| 14-SWM08    | 8mm  | 6mm   | 1000     | 6900                  | 150 | 1000     | 25,50,100m | Black, Blue, Red        | 34-99DS08 |
| 14-SWM10075 | 10mm | 7.5mm | Note     | Note : Burst          |     | 1900     | 25,50,100m | Black, Blue, Red        | 34-99DS10 |
| 14-SWM1008  | 10mm | 8mm   |          | es are not            | 220 | 1500     | 100m       | Black                   |           |
| 14-SWM12    | 12mm | 9mm   |          | l for DIN<br>rd Tube. | 275 | 1900     | 25,50,100m | Black, Blue, Red        | 34-99DS12 |
| 14-SWM14    | 14mm | 10mm  |          | st 3 sizes            | 320 | 2200     | 25,50,100m | Black                   |           |
| 14-SWM15    | 15mm | 12mm  |          | re J844A              | 220 | 1500     | 25,50,100m | Black                   | 34-99DS15 |
| 14-SWM16    | 16mm | 12mm  | pressure | e ratings.            | 275 | 1900     | 25,50,100m | Black                   |           |

#### J844A Braided Metric Airbrake Tube

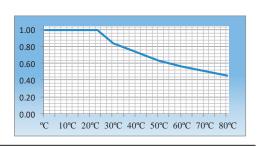
|          | Si   | ze   | Burst F | ressure | Working Pressure |      | Available  | Available        | Insert     |
|----------|------|------|---------|---------|------------------|------|------------|------------------|------------|
| Code     | O.D. | I.D. | PSI     | kPa     | PSI              | kPa  | Lengths    | Colours          | Code       |
| 14-BRM10 | 10mm | 7mm  | 1190    | 8200    | 150              | 1000 | 25,50,100m | Black, Blue, Red | 34-99JMB10 |
| 14-BRM12 | 12mm | 9mm  | 1000    | 6900    | 150              | 1000 | 25,50,100m | Black, Blue, Red | 34-99JMB12 |
| 14-BRM16 | 16mm | 12mm | 870     | 6000    | 150              | 1000 | 25,50,100m | Black            | 34-99JMB16 |

Note: Some colours of airbrake tube may only be available in 100 metre lengths.

The working pressures listed for Nylon tube are based on an ambient temp of 23°C. Higher temperatures will result in a reduction of pressure rating.

To calculate working pressures at various temperatures, multiply working pressure by factor given in the table.

| Derating Temperature Chart |        |  |  |  |  |  |  |
|----------------------------|--------|--|--|--|--|--|--|
| Temperature                | Factor |  |  |  |  |  |  |
| -40°C to 23°C              | 1.00   |  |  |  |  |  |  |
| 30°C                       | 0.84   |  |  |  |  |  |  |
| 50°C                       | 0.63   |  |  |  |  |  |  |
| 60°C                       | 0.56   |  |  |  |  |  |  |
| 80°C                       | 0.45   |  |  |  |  |  |  |



## **TRUCK COILS - (Category 14)**

#### **Suzi-Coils**



| Code           | Description                                     | W/Length |
|----------------|---|----------|
| 14-SUZI        | 1/2 Red/Blue J844B Fitted Set. Short Tail       | 3.0m     |
| 14-SUZI-L      | 1/2 Red/Blue J844BFitted Set. Long Tail         | 3.7m     |
| 14-SUZI-LB     | 1/2 Unfitted J844B Blue Suzi Coil - Long Tail   | 3.7m     |
| 14-SUZI-LK     | 1/2 Unfitted J844B Black Suzi Coil - Long Tail  | 3.7m     |
| 14-SUZI-LR     | 1/2 Unfitted J844B Red Suzi Coil - Long Tail    | 3.7m     |
| 14-SUZI-SB     | 1/2 Unfitted J844B Blue Suzi Coil - Short Tail  | 3.0m     |
| 14-SUZI-SR     | 1/2 Unfitted J844B Red Suzi Coil - Short Tail   | 3.0m     |
| 14-SUZI END M8 | 1/2 Suzi Coil End With Short Springs            | N/A      |
| 14-BR06C015    | 3/8 Black J844B Coiled Tube. 15m Working Length | 15.0m    |
| 14-BR06C015B   | 3/8 Blue J844B Coiled Tube. 15m Working Length  | 15.0m    |
| 14-BR06C015R   | 3/8 Red J844B Coiled Tube. 15m Working Length   | 15.0m    |
| 14-BR06C020    | 3/8 Black J844B Coiled Tube. 20m Working Length | 20.0m    |
| 14-BR08C015    | 1/2 Black J844B Coiled Tube. 15m Working Length | 15.0m    |
| 14-BR08C015B   | 1/2 Blue J844B Coiled Tube. 15m Working Length  | 15.0m    |
| 14-BR08C015R   | 1/2 Red J844B Coiled Tube. 15m Working Length   | 15.0m    |
| 14-BR08C020    | 1/2 Black J844B Coiled Tube. 20m Working Length | 20.0m    |
| 14-BR08C020B   | 30m 1/2 Blue J844B Coiled Tube. (20m W/Length)  | 20.0m    |
| 14-BR08C020R   | 30m 1/2 Red J844B Coiled Tube. (20m W/Length)   | 20.0m    |

Fitted Air brake coils are SAE J844 compliant nylon tubing that is helically coiled to give a desired working length. They can be retracted to a very short length and stored out of the way when not in use. They are designed for the transfer of air between the prime mover and semi-trailer.

#### **Fitted Electrocoils**



| Code      | Description                           |
|-----------|---------------------------------------|
| 14-EF15   | Fitted Electrcoil. 15 Amp. Short Tail |
| 14-EF15-L | Fitted Electrcoil. 15 Amp. Long Tail  |
| 14-EF35   | Fitted Electrcoil. 35 Amp. Short Tail |
| 14-EF35-L | Fitted Electrcoil. 35 Amp. Long Tail  |

15 Amp coils are 7 core polyamide coated. Wiring is 6 cores of 4mm ( $2\text{mm}^2$ ) cable and one 5mm ( $3\text{mm}^2$ ) earth cable.

Very good abrasion and sag resistance and UV protection.

Each coils extends to 4.6m (15ft).

Each coil is fitted with standard large round 7 pin metal trailer plugs with Amp rating per pole of 30A at 12 Volts.

Accepts 6mm cable (5.22mm²)

Heavy Duty 35 Amp Coils are 7 core polyamide coated. Wiring is 4 x 5mm (3mm²), 2 x 6mm (5mm²) and 1 x 8AWG (8mm²). The heavy duty green jacket offers very good abrasion and sag resistance and UV protection.

Each coils extends to 4.6m (15ft).

Each coil is fitted with heavy duty 7 pin metal trailer plugs with an internal weatherproof seal and cable guard.

Amp rating per pole of 30A at 6-24 Volts continuous

### **Unfitted Electrocoils**



| Code           | Description  | W/Length |
|----------------|--|----------|
| 14-ELEC15      | Standard Duty 15 Amp 7 Core Electracoil Short Tail | 3.0m     |
| 14-ELEC15-L    | Standard Duty 15 Amp 7 Core Electracoil Long Tail  | 3.5m     |
| 14-ETTEC15X10M | Light Duty 15 Amp 7 Core Electracoil 10m Long      | 10.0m    |
| 14-ELEC25      | Heavy Duty 25 Amp 7 Core Electracoil Short Tail    | 3.0m     |
| 14-ELEC25-L    | Heavy Duty 25 Amp 7 Core Electracoil Long Tail     | 3.5m     |

## **POLYURETHANE TUBE (Category 14)**



Polyurethane tubing is lightweight, extremely flexible and ultra kink resistant. It remains flexible at low temperatures. It is UV stabilised and abrasive resistant.

The tube is manufactured under tight tolerances from as ester based, FDA approved 98A material.

Temperature Range: -20°C to 60°C (-4°F to 140°F)

### **Imperial Tube Sizes**

|         | Siz  | ze    | Burst Pres | ssure | Working Pressure |      | Available  | Available                       |
|---------|------|-------|------------|-------|------------------|------|------------|---------------------------------|
| Code    | O.D. | I.D.  | PSI        | kPa   | PSI              | kPa  | Lengths    | Colours                         |
| 14-PU02 | 1/8  | 0.062 | 720        | 4960  | 240              | 1650 | 25,100m    | Clear                           |
| 14-PU03 | 3/16 | 0.107 | 495        | 3410  | 165              | 1140 | 20,50,100m | Black, Blue                     |
| 14-PU04 | 1/4  | 0.160 | 430        | 2960  | 143              | 990  | 20,50,100m | Black, Blue, Clear, Red, Yellow |
| 14-PU06 | 3/8  | 0.250 | 396        | 2730  | 132              | 910  | 20,50,100m | Black, Blue, Clear, Red, Yellow |
| 14-PU08 | 1/2  | 0.320 | 444        | 3060  | 148              | 1020 | 20,100m    | Black, Blue, Clear              |

### **Metric Tube Sizes**

|          | Size |        | Burst Pressure |      | Working Pressure |      | Available   | Available                              |
|----------|------|--------|----------------|------|------------------|------|-------------|--|
| Code     | O.D. | I.D.   | PSI            | kPa  | PSI              | kPa  | Lengths     | Colours                                |
| 14-PUM03 | 3mm  | 1.8mm  | 570            | 3900 | 190              | 1300 | 20,50,100m  | Blue                                   |
| 14-PUM04 | 4mm  | 2.5mm  | 570            | 3900 | 190              | 1300 | 20,100,200m | Black, Blue, Clear, Red, Yellow        |
| 14-PUM06 | 6mm  | 4.0mm  | 480            | 3300 | 160              | 1100 | 20,50,100m  | Black, Blue, Clear, Red, Yellow, Green |
| 14-PUM08 | 8mm  | 5.0mm  | 520            | 3600 | 170              | 1200 | 20,50,100m  | Black, Blue, Clear, Red, Yellow        |
| 14-PUM10 | 10mm | 6.5mm  | 480            | 3300 | 160              | 1100 | 20,50,100m  | Black, Blue, Clear, Red, Yellow        |
| 14-PUM12 | 12mm | 8.0mm  | 440            | 3000 | 150              | 1000 | 20,50,100m  | Black, Blue, Clear, Red, Yellow        |
| 14-PUM16 | 16mm | 11.0mm | 440            | 3000 | 150              | 1000 | 20,50,100m  | Black, Blue, Clear                     |

# **TWIN BONDED POLYURETHANE TUBE (Category 14)**



|           | Size |       | Burst Pressure |      | Working Pressure |      | Available | Available  |
|-----------|------|-------|----------------|------|------------------|------|-----------|------------|
| Code      | O.D. | I.D.  | PSI            | kPa  | PSI              | kPa  | Lengths   | Colours    |
| 14-PUMT06 | 6mm  | 4.0mm | 480            | 3300 | 160              | 1100 | 100m      | Black/Blue |
| 14-PUMT08 | 8mm  | 5.0mm | 520            | 3600 | 170              | 1200 | 100m      | Black/Blue |
| 14-PUMT10 | 10mm | 6.5mm | 480            | 3300 | 160              | 1100 | 50m       | Black/Blue |

The working pressures listed for PU tube are based on an ambient temp of 23°C. Higher temperatures will result in a reduction of pressure rating.

To calculate working pressures at various temperatures, multiply working pressure by factor given in the table below.

| Temperature   | Factor |
|---------------|--------|
| -20°C to 20°C | 1.00   |
| 30°C          | 0.85   |
| 40°C          | 0.70   |
| 50°C          | 0.60   |
| 60°C          | 0.50   |



Refer to category 20 for a full range of compatible push-in fittings

# PTFE (TEFLON) TUBE (Category 14)



- Manufactured from Virgin Polytetrafluorethylene (PTFE)
- High Operating Temperatures. (-70° to 260°C)
- High Chemical Resistance
- Smooth Bore
- High Flexibility
- Suitable for food, chemical and medical transfer applications
- FDA Approved. PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550
- Available in a Natural / Translucent White Colour.

### **Imperial Tube Sizes**

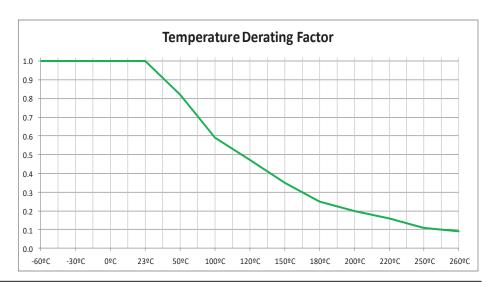
|          | Siz           | Burst I       | Pressure | Working F | Available |      |         |
|----------|---------------|---------------|----------|-----------|-----------|------|---------|
| Code     | O.D.          | I.D.          | PSI      | kpa       | PSI       | kpa  | Lengths |
| 14-T0201 | 1/8 (3.18mm)  | 1/16 (1.59mm) | 1500     | 10335     | 375       | 2584 | 5m, 25m |
| 14-T0302 | 3/16 (4.76mm) | 1/8 (3.18mm)  | 962      | 6625      | 240       | 1656 | 5m, 25m |
| 14-T0403 | 1/4 (6.35mm)  | 3/16 (4.76mm) | 700      | 4823      | 175       | 1206 | 5m, 25m |
| 14-T0504 | 5/16 (7.94mm) | 1/4 (6.35mm)  | 549      | 3781      | 137       | 945  | 5m, 25m |
| 14-T0604 | 3/8 (9.53mm)  | 1/4 (6.35mm)  | 962      | 6625      | 240       | 1656 | 5m, 25m |
| 14-T0605 | 3/8 (9.53mm)  | 5/16 (7.94mm) | 451      | 3106      | 113       | 777  | 5m, 25m |
| 14-T0806 | 1/2 (12.7mm)  | 3/8 (9.53mm)  | 700      | 4823      | 175       | 1206 | 5m, 25m |
| 14-T1008 | 5/8 (15.88mm) | 1/2 (12.7mm)  | 549      | 3781      | 137       | 945  | 5m, 25m |
| 14-T1210 | 3/4 (19.05mm) | 5/8 (15.88mm) | 451      | 3106      | 113       | 777  | 5m, 25m |

### **Metric Tube Sizes**

|           | Size         | Burst P     | ressure | Working | Available |      |         |
|-----------|--------------|-------------|---------|---------|-----------|------|---------|
| Code      | O.D.         | I.D.        | PSI     | kpa     | PSI       | kpa  | Lengths |
| 14-TM0402 | 4mm (0.157)  | 2mm (0.079) | 1500    | 10335   | 375       | 2584 | 5m, 25m |
| 14-TM0503 | 5mm (0.197)  | 3mm (0.118) | 1176    | 8106    | 294       | 2026 | 5m, 25m |
| 14-TM0604 | 6mm (0.236)  | 4mm (0.157) | 962     | 6625    | 240       | 1656 | 5m, 25m |
| 14-TM0805 | 8mm (0.315)  | 5mm (0.197) | 1096    | 7548    | 274       | 1887 | 5m, 25m |
| 14-TM0806 | 8mm (0.315)  | 6mm (0.236) | 700     | 4823    | 175       | 1206 | 5m, 25m |
| 14-TM1008 | 10mm (0.394) | 8mm (0.315) | 549     | 3781    | 137       | 945  | 5m, 25m |
| 14-TM1209 | 12mm (0.472) | 9mm (0.354) | 700     | 4823    | 175       | 1206 | 5m, 25m |

The working pressures listed for PTFE tube are based on an ambient temp of 23°C. Higher temperatures will result in a reduction of pressure rating. To calculate working pressures at various temperatures, multiply working pressure by factor given in the table and graph below

| Factor |
|--------|
| 1.00   |
| 1.00   |
| 1.00   |
| 1.00   |
| 0.82   |
| 0.59   |
| 0.47   |
| 0.35   |
| 0.25   |
| 0.20   |
| 0.16   |
| 0.11   |
| 0.09   |
|        |



# **CLEAR SILICONE TUBE (Category 14)**

### General Characteristics

- Manufactured from 100% platinum silicone elastomer.
- Environmentally friendly.
- Odourless, tasteless and non-toxic.
- Individually sealed and packaged 15 meter coils.
- F.D.A and European Pharmacopoeia approved.



# Physical Properties

| Hardness (durometer) | 60 Shore A       |
|----------------------|------------------|
| Tensile Strength     | 10.8 Mpa         |
| Elongation at Break  | 400%             |
| Tear Strength        | 34 kN/m          |
| Brittle Point        | -82°C            |
| Working Temp. Range  | -50°C to + 260°C |

# Typical Applications

- Peristaltic Pumps
- Aspirating
- Suction
- Infusion
- Anaesthetic Machine Circuits
- Food Manufacturing & Processing
- Laboratory and Scientific Equipment

# Size Range

|             | Burst Pre       | ssure           | Working l | Available |     |     |         |
|-------------|-----------------|-----------------|-----------|-----------|-----|-----|---------|
| Code        | O.D.            | I.D.            | PSI       | kPa       | PSI | kPa | Lengths |
| 14-SI047024 | 1.2mm (0.047")  | 0.6mm (0.024")  |           |           |     |     | 5m, 15m |
| 14-SI063031 | 1.6mm (1/16)    | 0.8mm (1/32)    |           |           |     |     | 5m, 15m |
| 14-SI087047 | 2.2mm (0.087")  | 1.2mm (0.047")  |           |           |     |     | 5m, 15m |
| 14-SI094063 | 2.4mm (3/32)    | 1.6mm (1.16)    |           |           |     |     | 5m, 15m |
| 14-SI125063 | 3.2mm (1/8)     | 1.6mm (1.16)    |           |           |     |     | 5m, 15m |
| 14-SI193102 | 4.9mm (0.193")  | 2.6mm (0.102")  | 8         | 55        | 3   | 18  | 5m, 15m |
| 14-SI250125 | 6.4mm (1.4)     | 3.2mm (1/8)     | 18        | 124       | 6   | 41  | 5m, 15m |
| 14-SI312188 | 7.9mm (5/16)    | 4.8mm (3/16)    | 22        | 152       | 7   | 51  | 5m, 15m |
| 14-SI375188 | 9.5mm (3/8)     | 4.8mm (3/16)    | 32        | 220       | 11  | 73  | 5m, 15m |
| 14-SI375250 | 9.5mm (3/8)     | 6.4mm (1/4)     | 22        | 152       | 7   | 51  | 5m, 15m |
| 14-SI437250 | 11.1mm (7/16)   | 6.4mm (1/4)     | 29        | 200       | 10  | 67  | 5m, 15m |
| 14-SI469281 | 11.9mm (15/32)  | 7.1mm (9/32)    | 34        | 234       | 11  | 78  | 5m, 15m |
| 14-SI500250 | 12.7mm (1/2)    | 6.4mm (1/4)     | 45        | 310       | 15  | 103 | 5m, 15m |
| 14-SI500312 | 12.7mm (1/2)    | 7.9mm (5/16)    | 28        | 193       | 9   | 64  | 5m, 15m |
| 14-SI563312 | 14.3mm (9/16)   | 7.9mm (5/16)    | 48        | 331       | 16  | 110 | 5m, 15m |
| 14-SI563375 | 14.3mm (9/16)   | 9.5mm (3/8)     | 21        | 145       | 7   | 48  | 5m, 15m |
| 14-SI591394 | 15.0mm (0.591") | 10.0mm (0.394") | 28        | 193       | 9   | 64  | 5m, 15m |
| 14-SI625375 | 15.9mm (5/8)    | 9.5mm (3/8)     | 30        | 207       | 10  | 69  | 5m, 15m |
| 14-SI688500 | 17.5mm (11/16)  | 12.7mm (1/2)    | 16        | 110       | 5   | 37  | 5m, 15m |
| 14-SI750500 | 19.1mm (3/4)    | 12.7mm (1/2)    | 30        | 207       | 10  | 69  | 5m, 15m |
| 14-SI875625 | 22.2mm (7/8)    | 15.9mm (5/8)    | 25        | 172       | 8   | 57  | 5m, 15m |

## POLYETHYLENE TUBE (LDPE) (Category 14)



Esdan LDPE is ideal for transfer of air & liquids in industrial appliances. It is chemically inert and has excellent resistance to most solvents. LDPE has a wide range of uses in industry, agriculture, chemical plants and paper mills. It provides good resistance to most chemicals. It has an operating temperature range of up to  $60^{\circ}\text{C}$ . LDPE is recommended for pneumatic control installations and low pressure hydraulics where a low cost, flexible connection is required. Esdan LDPE offers sturdy performance. It is lightweight and flexible. LDPE is available in a wide range of colours. All colours other than Yellow are Food Contact to AS 2070

#### **Imperial Tube Sizes**

|         | Si   | ize   | Burst I | Pressure | Working Pressure |     | Available | Available                    |
|---------|------|-------|---------|----------|------------------|-----|-----------|------------------------------|
| Code    | O.D. | I.D.  | PSI     | kPa      | PSI              | kPa | Lengths   | Colours                      |
| 14-PE03 | 3/16 | 0.124 | 480     | 3307     | 120              | 827 | 100m      | Black                        |
| 14-PE04 | 1/4  | 0.166 | 480     | 3307     | 120              | 827 | 100m      | Black, Blue, Natural, Red    |
| 14-PE05 | 5/16 | 0.208 | 480     | 3307     | 120              | 827 | 100m      | Black                        |
| 14-PE06 | 3/8  | 0.250 | 480     | 3307     | 120              | 827 | 100m      | Black, Blue, Natural, Yellow |
| 14-PE08 | 1/2  | 0.333 | 480     | 3307     | 120              | 827 | 100m      | Black, Blue, Natural         |
| 14-PE10 | 5/8  | 0.500 | 480     | 3307     | 120              | 827 | 100m      | Black, Natural               |

### **Metric Tube Sizes**

|          | Size |       | Burst Pressure |      | Working Pressure |     | Available | Available                         |
|----------|------|-------|----------------|------|------------------|-----|-----------|-----------------------------------|
| Code     | O.D. | I.D.  | PSI            | kPa  | PSI              | kPa | Lengths   | Colours                           |
| 14-PEM04 | 4mm  | 2.6mm | 464            | 3200 | 116              | 800 | 100m      | Black, Blue, Natural              |
| 14-PEM06 | 6mm  | 4mm   | 464            | 3200 | 116              | 800 | 100m      | Black, Blue, Natural, Red         |
| 14-PEM08 | 8mm  | 5.3mm | 464            | 3200 | 116              | 800 | 100m      | Black, Blue, Natural, Red, Yellow |
| 14-PEM10 | 10mm | 6.6mm | 464            | 3200 | 116              | 800 | 100m      | Black, Blue, Green, Natural       |
| 14-PEM12 | 12mm | 8mm   | 464            | 3200 | 116              | 800 | 100m      | Black, Blue, Natural              |

## FEP140 TUBE (Category 14)



- Manufactured from Fluorinated Ethylene Propylene (FEP140)
- Operating Temperatures. (-40° to 150°C)
- Resists to most chemicals and solvents
- Suitable for food, chemical and medical transfer applications
  - FDA Approved. Meets FDA 21 CFR 177.1550
- UL94 V-0 Fire Resistance
- Available in Clear only for high fluid visibility

#### **Metric Tube Sizes**

|            | Siz          | ze e          | Working P | Available |         |
|------------|--------------|---------------|-----------|-----------|---------|
| Code       | O.D.         | I.D.          | PSI       | kpa       | Lengths |
| 14-FEM0402 | 4mm (0.157)  | 2.5mm (0.098) | 330       | 2250      | 5m, 25m |
| 14-FEM0604 | 6mm (0.236)  | 4mm (0.157)   | 290       | 2000      | 5m, 25m |
| 14-FEM0806 | 8mm (0.315)  | 6mm (0.236)   | 230       | 1600      | 5m, 25m |
| 14-FEM1008 | 10mm (0.394) | 8mm (0.315)   | 170       | 1200      | 5m, 25m |
| 14-FEM1210 | 12mm (0.472) | 10mm (0.394)  | 140       | 950       | 5m, 25m |

For working pressures at higher temperatures, please see the adjacent graph

