



MANUFACTURERS OF PRECISION-MADE
FLEXIBLE TUBING & SPIRAL RECOIL HOSE

ATP[®]
**ADVANCED
TECHNOLOGY
PRODUCTS**

TUBING

Surethane[®] NSF 51[®] Polyurethane

Surethane UV[™] Polyurethane

Nylochem[®] Nylon 12

Value-Tube[™] Polyethylene LLDPE

Imbibe[™] NSF 61[®] Polyethylene LLDPE

Vinyl-Flex[™] NSF 61[®] PVC

Mercury[™] PTFE

Venus[™] FEP

Aarmor-Weld[™] Spatter Resistant Tubing

MonoShield[®] Single-Core Weld Tubing

**ATP Products
are available from
MARYLAND METRICS**

P.O. Box 261 Owings Mills, MD 21117 USA

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fx: (410)358-3142

(800)872-9329

email: sales@mdmetric.com web: <http://mdmetric.com>

RFQ form: <http://mdmetric.com/rfq.htm>

How to order: Please preface each ATP part number with 'R860-'
Example (using the part number): R860-PU04M/532AC



TAKE A LOOK AT WHAT WE OFFER NOW!

Advanced Technology Products, (ATP) has been supplying you with the highest quality polyurethane tubing available in the market for more than sixteen years. We have been expanding our product offering over the past few years and would like to introduce them to you in our new full line tubing catalog! You can now consolidate purchases with ATP and still get the high quality and service that you've come to know.

ATP's tubing products are superior because we use 100% virgin materials for improved performance; never "off spec" or regrind. We take pride in our work and have added the type of products that our customers desire. After reviewing the complete product line, if you do not find what you're looking for, don't hesitate to ask us for it. Our full product capabilities list is found on the back page of this catalog. We welcome your inquiries for custom materials, sizes, colors, and cut lengths. We would also welcome the opportunity to quote your "private label" and custom packaging needs.

Thank you for the opportunity to earn your business!

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NSF® is a registered trademark of the NATIONAL SANITATION FOUNDATION

ATP Private Brand PU Minimum Run Requirements

Tubing O.D.	Min. Footage Required^{*, **}
1/8"	30,000
5/32", 4mm	15,000
3/16"	30,000
1/4", 6mm	15,000
5/16", 8mm	10,000
3/8", 10mm	10,000
1/2", 12mm,	5,000
9/16"	2,500
5/8", 16mm	2,500
3/4"	2,500
<p>* Same Current Net Pricing ** One-shipment Only</p>	

Tubing O.D.	Min. Footage Required^{+, **}
1/8"	15,000
5/32", 4mm	7,500
3/16"	15,000
1/4", 6mm	7,500
5/16", 8mm	5,000
3/8", 10mm	5,000
1/2", 12mm	2,500
<p>+ 15% Adder to Current Net Price ** Maximum Six Week Lead Time</p>	

ATP Private Brand NYLON & PE Minimum Run Requirements

Tubing O.D.	Min. Footage Required^{*, **}
1/8"	50,000
5/32", 4mm	50,000
3/16"	50,000
1/4", 6mm	50,000
5/16", 8mm	40,000
3/8", 10mm	25,000
1/2", 12mm	14,000
9/16"	2,500
5/8", 16mm	2,500
3/4"	2,500
<p>* Same Current Net Pricing ** One-shipment Only</p>	

LIMITED WARRANTY

Advanced Technology Products expressly excludes all warranties, guarantees and representations, expressed or implied, including but not limited to warranties of merchantability, material, workmanship, design and suitability for a specified or intended purpose. Products shall be free from defects in material and workmanship for a period of one (1) year after shipment. If the product purchased is defective in any way during the one (1) year period, please contact ATP for an RGA number to return the product. No unauthorized returns will be accepted. Ship product prepaid to ATP for a full evaluation. If the product is found to be defective, ATP will repair or replace the product at no charge to the customer at ATP's sole discretion.

Surethane® NSF 51® Polyurethane (Shore A 98)

ATP



ATP Surethane® NSF 51® polyurethane (PUR) Shore A 98 tubing is made from the highest quality raw materials available. It is ether-based to provide excellent hydrolysis, oil and cold resistance. Surethane® NSF 51® is strong and flexible and offers superior kink resistance compared to other tubing. It is 5 to 10 times more wear resistant and lighter in weight than any rubber hose.

ATP Surethane® NSF 51® tubing has an outside diameter made to extremely tight tolerances. It is ideal for use with Technifit™ push-to-connect fittings, as well as barb-type and compression fittings for simple installation.

Package Lengths

- A = 100'
- B = 250'
- C = 500'
- D = 1000'
- E = 25 Meters
- F = 100 Meters

Part Numbering System

PU 18 A BK

Polyurethane
Tubing O.D.
Package Length
Tubing color
Insert color designation into part number when ordering

Stock Color Chart: ● = Stock, x = Non Stock

MS	BK	C	CB	CG	CR	G	GY	LB	LG	NB	OR	R	W	Y
1/8	●	●	●	x	x	●	●	●	x	●	●	●	●	●
4mm/5/32	●	●	●	x	x	●	●	●	x	●	●	●	●	●
3/16	●	●	●	x	x	●	x	●	x	●	●	●	●	●
1/4	●	●	●	x	x	●	●	●	x	●	●	●	●	●
8mm/5/16	●	●	●	x	x	●	●	●	x	●	●	●	●	●
3/8	●	●	●	x	x	●	●	●	x	●	●	●	●	●
1/2	●	●	●	x	x	●	●	●	x	●	●	●	●	●
9/16	●	●	●	x	x	x	x	x	x	x	x	x	x	x
5/8	●	●	●	x	x	x	x	x	x	x	x	x	x	x
3/4	●	●	●	x	x	●	x	x	x	●	x	●	●	●
6mm	●	●	●	x	x	●	●	●	x	●	x	●	●	●
10mm	●	●	●	x	x	●	x	●	x	●	●	●	●	●
12mm	●	●	●	x	x	●	x	●	x	●	x	●	●	●
16mm	●	●	●	x	x	●	x	●	x	●	x	●	●	●

BK = Black, C = Clear, CB = Clear Blue, CG = Clear Green, CR = Clear Red, G = Green, GY = Gray, LB = Light Blue, LG = Light Green, NB = Navy Blue, OR = Orange, R = Red, W = White, Y = Yellow

Features

- Strong
- Lightweight
- Flexible
- Abrasion Resistant
- Heat & Cold Resistant
- Chemical Resistant
- Kink Resistant
- NSF 51® Certified
- Meets NSF 61® Requirements

Specifications

Temperature Range:
-40°F To +160°F
*color green, clear green, yellow, clear yellow
Temperature Range: -40°F To +150°F

Hardness: Shore A 98

Vacuum Rating:
To 28" Hg

Tolerances:
1/8" - 1/2" O.D. +/- .005
9/16" - 3/4" O.D. +/- .006

RoHS Compliant

Applications

- Pneumatic Tools
- Pneumatic Piping
- Vacuum
- Laboratories
- Robotics
- Motion Control
- Instrumentation
- Agriculture
- Lube Lines
- Painting Systems
- Food & Beverage

Custom sizes, colors, lengths are available with minimum quantity. See page 3 for details.



Fractional Sizes

Part Number	O.D. (IN)	I.D. (IN)	wall thickness (IN)	bend radius (IN)	W.P. @70° F (PSI)	W.P. @150° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
PU18A_	.125	.062	.031	.200	240	100	720	100'	.50
PU18B_	.125	.062	.031	.200	240	100	720	250'	1.25
PU18C_	.125	.062	.031	.200	240	100	720	500'	2.50
PU18D_	.125	.062	.031	.200	240	100	720	1000'	5.00
PU04M/532A_	4MM,5/32	.093	.031	.250	200	85	600	100'	.70
PU04M/532B_	4MM,5/32	.093	.031	.250	200	85	600	250'	1.75
PU04M/532C_	4MM,5/32	.093	.031	.250	200	85	600	500'	3.50
PU04M/532D_	4MM,5/32	.093	.031	.250	200	85	600	1000'	7.00
PU04M/532E_	4MM,5/32	.093	.031	.250	200	85	600	25M	.57
PU04M/532F_	4MM,5/32	.093	.031	.250	200	85	600	100M	2.30
PU316A_	.187	.125	.031	.339	150	90	450	100'	1.01
PU316B_	.187	.125	.031	.339	150	90	450	250'	2.53
PU316C_	.187	.125	.031	.339	150	90	450	500'	5.05
PU316D_	.187	.125	.031	.339	150	90	450	1000'	10.10
PU14A_	.250	.156	.047	.476	180	70	540	100'	1.50
PU14B_	.250	.156	.047	.476	180	70	540	250'	3.75
PU14C_	.250	.156	.047	.476	180	70	540	500'	7.50
PU14D_	.250	.156	.047	.476	180	70	540	1000'	15.00
PU08M/516A_	8MM,5/16	.187	.063	.594	175	75	525	100'	2.60
PU08M/516B_	8MM,5/16	.187	.063	.594	175	75	525	250'	6.50
PU08M/516C_	8MM,5/16	.187	.063	.594	175	75	525	500'	13.00
PU08M/516D_	8MM,5/16	.187	.063	.594	175	75	525	1000'	26.00
PU08M/516E_	8MM,5/16	.187	.063	.594	175	75	525	25M	2.13
PU08M/516F_	8MM,5/16	.187	.063	.594	175	75	525	100M	8.53
PU38A_	.375	.250	.063	1.000	150	70	450	100'	3.40
PU38B_	.375	.250	.063	1.000	150	70	450	250'	8.50
PU38C_	.375	.250	.063	1.000	150	70	450	500'	17.00
PU38D_	.375	.250	.063	1.000	150	70	450	1000'	34.00
PU12A_	.500	.328	.086	1.102	150	70	450	100'	5.60
PU12B_	.500	.328	.086	1.102	150	70	450	250'	14.90
PU12C_	.500	.328	.086	1.102	150	70	450	500'	28.05
PU916A_	.562	.375	.093	1.142	140	60	420	100'	7.50
PU916B_	.562	.375	.093	1.142	140	60	420	250'	18.75
PU58A_	.625	.406	.109	1.375	140	70	450	100'	9.50
PU58B_	.625	.406	.109	1.375	140	70	450	250'	23.75
PU34A_	.750	.500	.125	1.500	140	70	420	100'	14.90
PU34B_	.750	.500	.125	1.500	140	70	420	250'	37.25

_Insert color designation into part number when ordering.



Metric Sizes

Part Number	O.D. (mm)	I.D. (mm)	wall thickness (mm)	bend radius (mm)	W.P. @70° F (PSI)	W.P. @150° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
PU06MA_	6.0	4.0	1.000	12	180	65	540	100'	1.30
PU06MB_	6.0	4.0	1.000	12	180	65	540	250'	3.24
PU06MC_	6.0	4.0	1.000	12	180	65	540	500'	6.48
PU06MD_	6.0	4.0	1.000	12	180	65	540	1000'	13.00
PU06ME_	6.0	4.0	1.000	12	180	65	540	25M	1.07
PU06MF_	6.0	4.0	1.000	12	180	65	540	100M	4.28
PU10MA_	10.0	6.5	1.750	25	150	70	450	100'	3.90
PU10MB_	10.0	6.5	1.750	25	150	70	450	250'	9.75
PU10MC_	10.0	6.5	1.750	25	150	70	450	500'	19.50
PU10ME_	10.0	6.5	1.750	25	150	70	450	25M	3.25
PU10MF_	10.0	6.5	1.750	25	150	70	450	100M	12.76
PU12MA_	12.0	8.0	2.000	28	150	60	450	100'	5.30
PU12MB_	12.0	8.0	2.000	28	150	60	450	250'	13.25
PU12MC_	12.0	8.0	2.000	28	150	60	450	500'	26.50
PU12ME_	12.0	8.0	2.000	28	150	60	450	25M	4.39
PU12MF_	12.0	8.0	2.000	28	150	60	450	100M	17.34
PU16MA_	16.0	11.0	2.500	30	150	70	450	100'	9.50
PU16MB_	16.0	11.0	2.500	30	150	70	450	250'	23.75
PU16ME_	16.0	11.0	2.500	30	150	70	450	25M	7.79
PU16MF_	16.0	11.0	2.500	30	150	70	450	100M	31.16

_Insert color designation into part number when ordering.

*4mm O.D. & 8mm O.D. found on page 5

Custom sizes, colors, lengths are available with minimum quantity. See page 3 for details.

Surethane UV™ Polyurethane (Shore A 98)



ATP Surethane UV™ polyurethane (PUV) Shore A 98 tubing is made from the highest quality raw materials available. **The black color with the addition of ultraviolet stabilizers makes this tubing excellent for use in outdoor applications.** It is ether-based to provide excellent hydrolysis, oil and cold resistance. Surethane UV™ is strong and flexible and offers superior kink resistance compared to other tubing. It is 5 to 10 times more wear resistant and lighter in weight than any rubber hose.

ATP Surethane UV™ tubing has an outside diameter made to extremely tight tolerances. It is ideal for use with Technifit™ push-to-connect fittings, as well as barb-type and compression fittings for simple installation.

Package Lengths

A = 100'
C = 500'

Part Numbering System

PUV 14 A BK

Polyurethane
Tubing O.D.
Package Length
Tubing color: Black

Part Number	O.D. (IN)	I.D. (IN)	wall thickness (IN)	bend radius (IN)	W.P. @70° F (PSI)	W.P. @150° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
PUV14ABK	.250	.156	.047	.476	180	70	540	100'	1.50
PUV14CBK	.250	.156	.047	.476	180	70	540	500'	7.50
PUV38ABK	.375	.250	.063	1.000	150	70	450	100'	3.40
PUV38CBK	.375	.250	.063	1.000	150	70	450	500'	17.00
PUV12ABK	.500	.328	.086	1.102	150	70	450	100'	5.60
PUV12CBK	.500	.328	.086	1.102	150	70	450	500'	28.05

ATP

Features

- U.V. Stabilized
- Strong
- Lightweight
- Flexible
- Abrasion Resistant
- Heat & Cold Resistant
- Chemical Resistant
- Kink Resistant

Specifications

- Temperature Range:
-40°F To +160°F
- Hardness: Shore A 98
- Vacuum Rating:
To 28" Hg
- Tolerances:
I.D. & O.D. = +/- .005
- RoHS Compliant

Applications

- Pneumatic Tools
- Pneumatic Piping
- Vacuum
- Laboratories
- Robotics
- Motion Control
- Instrumentation
- Agriculture
- Lube Lines
- Painting Systems

Nylochem® Nylon 12 Tubing

ATP



Nylochem® Nylon tubing is recognized as an industry standard for applications which require higher working pressures and higher heat and/ or chemical resistance than our polyurethane tubing. It is ideal for outdoor use applications because of its superior stress crack resistance.

Nylochem® is strong, lightweight and has a very low moisture absorption rate compared to other nylons. By not absorbing moisture,

Nylochem® remains more flexible, which in turn extends its service life. Nylochem® tubing can be used with Technifit™ push-to-connect fittings and compression fittings for simple installation.

Because of its semi-rigid properties, Nylon tubing offers a thinner tube wall providing higher flow rates and working pressure.

Be sure to check out our new **Nylon High Pressure Tube** offering on page 9!

Package Lengths

- A = 100'
- B = 250' (Non-Stock)
- C = 500'
- D = 1000'
- E = 25 Meters
- F = 100 Meters

Part Numbering System

N 18 A NA

Nylon 12
Tubing O.D.
Package Length
Tubing color
Insert color designation into
part number when ordering

Stock Color Chart: ● = Stock, x = Non Stock

N	BK	B	G	GY	NA	OR	R	S	Y
1/8	●	●	x	x	●	x	●	x	●
5/32	●	●	●	x	●	●	●	x	●
1/4 x .150	●	x	x	x	●	x	x	●	x
1/4	●	●	●	x	●	●	●	x	●
3/8 x .215	●	x	x	x	x	x	x	●	x
3/8	●	●	●	x	●	●	●	x	●
1/2	●	●	●	x	●	●	●	x	●
4mm	●	●	●	x	●	●	●	x	●
6mm	●	●	●	●	●	●	●	x	●
8mm	●	●	●	●	●	●	●	x	●
10mm	●	●	●	x	●	x	●	x	●
12mm	●	●	●	x	●	●	●	x	●
14mm	●	●	x	x	●	x	x	x	x

BK = Black, B = Blue, G = Green, GY=Gray, NA = Natural, OR = Orange, R = Red, S = Silver, Y = Yellow

Custom sizes, colors, lengths are available with minimum quantity. See page 3 for details.

Features

- Strong
- Lightweight
- Flexible
- Abrasion Resistant
- Heat Resistant
- Chemical Resistant

Specifications

- Hardness: Rockwell 78 R
- Shore D 70
- Temperature Range:
-60°F To +200°F
- Vacuum Rating: To 28" Hg
- Higher Flow Rates &
Working Pressure
- Tolerances:
1/8" - 1/4" O.D. +/- .005
3/8" - 1/2" O.D. +/- .006

Applications

- Pneumatic Tools
- Pneumatic Piping
- Instrumentation
- Lube Lines
- Coolants
- Refrigeration
- Chemical Transfer
- Vacuum
- Process Control
- Fuel Lines
- Paint Supply Lines
- Laboratories

Fractional Sizes

Part Number	O.D. (IN)	I.D. (IN)	wall thickness (IN)	bend radius (IN)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)	
N18A_	.125	.080	.022	.375	420	1260	100'	.35	
N18B_*	.125	.080	.022	.375	420	1260	250'	.88	
N18C_	.125	.080	.022	.375	420	1260	500'	1.75	
N18D_	.125	.080	.022	.375	420	1260	1000'	3.50	
N04M/532A_	4mm/.156	.106	.025	.500	350	1050	100'	.45	
N4M/532B_*	4mm/.156	.106	.025	.500	350	1050	250'	1.13	
N4M/532C_	4mm/.156	.106	.025	.500	350	1050	500'	2.25	
N4M/532D_	4mm/.156	.106	.025	.500	350	1050	1000'	4.50	
N14A_	.250	.180	.035	1.250	290	870	100'	1.04	
N14B_*	.250	.180	.035	1.250	290	870	250'	2.60	
N14C_	.250	.180	.035	1.250	290	870	500'	5.20	
N14D_	.250	.180	.035	1.250	290	870	1000'	10.40	
High Pressure	N14x.150A_	.250	.150	.050	.750	800	2400	100'	1.40
	N14x.150C_	.250	.150	.050	.750	800	2400	500'	6.80
	N38x.215A_	.375	.215	.082	1.000	883	2650	100'	3.20
	N38x.215C_	.375	.215	.082	1.000	883	2650	500'	16.0
N38A_	.375	.275	.050	2.000	250	750	100'	2.26	
N38B_*	.375	.275	.050	2.000	250	750	250'	5.65	
N38C_	.375	.275	.050	2.000	250	750	500'	11.30	
N38D_	.375	.275	.050	2.000	250	750	1000'	22.60	
N12A_	.500	.375	.062	3.500	240	720	100'	3.80	
N12B_*	.500	.375	.062	3.500	240	720	250'	9.50	
N12C_	.500	.375	.062	3.500	240	720	500'	19.00	

* = Non Stock Packaged Length _Insert color designation into part number when ordering.

Metric Sizes

Part Number	O.D. (mm)	I.D. (mm)	wall thickness (mm)	bend radius (mm)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
N06ME_	6.0	4.0	1.0	31.8	340	1020	25M	.90
N06MF_	6.0	4.0	1.0	31.8	340	1020	100M	3.60
N08ME_	8.0	6.0	1.0	38.0	250	750	25M	1.23
N08MF_	8.0	6.0	1.0	38.0	250	750	100M	4.92
N10ME_	10.0	8.0	1.0	51.0	225	675	25M	1.56
N10MF_	10.0	8.0	1.0	51.0	225	675	100M	6.23
N12ME_	12.0	10.0	1.0	63.5	200	600	25M	1.89
N12MF_	12.0	10.0	1.0	63.5	200	600	100M	7.55
N14ME_	14.0	11.0	1.5	100.0	175	525	25M	2.91
N14MF_	14.0	11.0	1.5	100.0	175	525	100M	11.64

_Insert color designation into part number when ordering.

Custom sizes, colors, lengths are available with minimum quantity. See page 3 for details.

Value-Tube™ LLDPE Tubing

ATP



Value-Tube™ Linear Low Density Polyethylene Tubing

Value-Tube™ is made from 100% non-toxic ingredients. It's inert nature and FDA compliant status makes it perfect for food and beverage piping not requiring NSF certification. It is ideal for use in pneumatic, drain piping, lab use and chemical transfer applications which require an inexpensive tubing.

Value-Tube™ is highly-resistant to stress cracking from chemicals, ageing and ultraviolet exposure. For use with barb-type, Technifit™ push-to-connect or compression- style fittings.!

Package Lengths

- A = 100'
- B = 250' (Non-Stock)
- C = 500'
- D = 1000'

Part Numbering System

PE 14 A NA

Polyethylene
Tubing O.D.
Package Length
Tubing color
Insert color designation into
part number when ordering

Stock Color Chart: ● = Stock, x = Non Stock

PE	BK	B	G	NA	P	R	Y
4mm/ 5/32	●	●	●	●	x	●	●
1/4	●	●	●	●	x	●	●
8mm/ 5/16	●	●	●	●	x	x	●
3/8	●	●	●	●	x	●	●
1/2	●	●	●	●	x	●	●
5/8	●	●	●	●	x	●	●
3/4	●	x	x	●	x	x	x
1	●	x	x	●	x	x	x
6mm	●	●	●	●	x	●	●
10mm	●	●	x	●	x	x	x
12mm	●	●	x	●	x	x	x

BK = Black, B = Blue, G = Green, NA = Natural, OR = Orange, P = Purple, R = Red, Y = Yellow

Features

- Chemically Inert
- Chemical Resistant
- Lightweight & Flexible
- Good Dielectric Properties
- Impermeable to Gases
- Meets FDA Requirements

Specifications

- Temperature Range:
-50°F To +140°F
- Hardness: Shore A 98A
Shore D 55D
- Vacuum Rating: To 28" Hg
- Tolerances:
1/8" - 1/4" O.D. +/- .004
3/8" - 1/2" O.D. +/- .006

Applications

- Food & Beverage
- Pneumatic Tools
- Pneumatic Piping
- Electrical Jacketing
- Drain Lines
- Instrumentation
- Chemical Transfer
- Process Control
- Laboratories

Custom sizes, colors, lengths are available with minimum quantity. See page 3 for details.



Fractional Sizes

Part Number	O.D. (IN)	I.D. (IN)	wall thickness (IN)	bend radius (IN)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
PE04M/532A_	4mm,5/32	.106	.025	1.000	180	540	100'	.60
PE04M/532B_*	4mm,5/32	.106	.025	1.000	180	540	250'	1.50
PE04M/532C_	4mm,5/32	.106	.025	1.000	180	540	500'	3.00
PE04M/532D_	4mm,5/32	.106	.025	1.000	180	540	1000'	6.00
PE14A_	.250	.170	.040	1.250	150	450	100'	1.20
PE14B_*	.250	.170	.040	1.250	150	450	250'	3.00
PE14C_	.250	.170	.040	1.250	150	450	500'	6.00
PE14D_	.250	.170	.040	1.250	150	450	1000'	12.00
PE1418A_	.250	.125	.0625	1.000	350	1050	100'	1.40
PE1418B_*	.250	.125	.0625	1.000	350	1050	250'	3.50
PE1418C_	.250	.125	.0625	1.000	350	1050	500'	7.00
PE1418D_	.250	.125	.0625	1.000	350	1050	1000'	14.00
PE08M/5/16A_	8mm,5/16	.236	.038	1.500	150	450	100'	1.50
PE08M/5/16B_*	8mm,5/16	.236	.038	1.500	150	450	250'	3.75
PE08M/5/16C_	8mm,5/16	.236	.038	1.500	150	450	500'	7.50
PE08M/5/16D_	8mm,5/16	.236	.038	1.500	150	450	1000'	15.00
PE38A_	.375	.250	.0625	2.000	150	450	100'	3.00
PE38B_*	.375	.250	.0625	2.000	150	450	250'	7.00
PE38C_	.375	.250	.0625	2.000	150	450	500'	14.00
PE38D_	.375	.250	.0625	2.000	150	450	1000'	25.00
PE12A_	.500	.375	.0625	2.500	125	375	100'	3.40
PE12B_*	.500	.375	.0625	2.500	125	375	250'	8.50
PE12C_	.500	.375	.0625	2.500	125	375	500'	17.00
PE58A_	.625	.500	.0625	3.000	100	300	100'	5.00
PE58B_*	.625	.500	.0625	3.000	100	300	250'	12.50
PE58C_	.625	.500	.0625	3.000	100	300	500'	25.00
PE34A_	.750	.625	.0625	4.000	100	300	100'	5.50
PE1A_	1.0	.750	.125	4.000	150	225	100'	13.70

* = Non Stock Packaged Length _Insert color designation into part number when ordering.

Metric Sizes

Part Number	O.D. (mm)	I.D. (mm)	wall thickness (mm)	bend radius (mm)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
PE06MA_	6.0	4.0	1.0	31.8	150	450	100'	1.10
PE06MB_*	6.0	4.0	1.0	31.8	150	450	250'	2.75
PE06MC_	6.0	4.0	1.0	31.8	150	450	500'	5.50
PE06MD_	6.0	4.0	1.0	31.8	150	450	1000'	11.00
PE10MA_	10.0	8.0	1.0	51.0	125	375	100'	2.10
PE10MB_*	10.0	8.0	1.0	51.0	125	375	250'	5.25
PE10MC_	10.0	8.0	1.0	51.0	125	375	500'	10.50
PE12MA_	12.0	9.0	1.5	63.5	100	300	100'	2.50
PE12MB_*	12.0	9.0	1.5	63.5	100	300	250'	6.50
PE12MC_	12.0	9.0	1.5	63.5	100	300	500'	13.00

* = Non Stock Packaged Length _Insert color designation into part number when ordering.

Custom sizes, colors, lengths are available with minimum quantity. See page 3 for details.

Imbibe™ NSF-61® LLDPE Tubing

ATP



Imbibe™ exceeds FDA expectations with its NSF-61® Certification for drinking water applications. Manufactured from 100% non-toxic ingredients, Imbibe is perfect for drinking water, beverage and food applications. With a complete range of sizes, colors and packaged lengths, Imbibe™ is the perfect one stop shop tubing option. Include NSF-61® Certified Fluidfit™ Push-to-Connect fittings and complete your assembly needs.

Package Lengths

- A = 100'
- B = 250' (Non-Stock)
- C = 500'
- D = 1000'

Part Numbering System

DWPE 14 A NA

Polyethylene
 Tubing O.D.
 Package Length
 Tubing color
 Insert color designation into part number when ordering

Stock Color Chart: ● = Stock, x = Non Stock

PE	BK	B	G	NA	R	W	Y
4mm/ 5/32	x	x	x	x	x	x	x
1/4	●	●	●	●	●	●	●
8mm/ 5/16	●	●	x	●	●	x	x
3/8	●	●	●	●	●	●	●
1/2	●	●	x	●	●	●	x
6mm	●	●	x	●	●	x	x
10mm	●	●	x	●	●	x	x
12mm	●	●	x	●	●	x	x

BK = Black, B = Blue, G = Green, NA = Natural, R = Red, W = White, Y = Yellow

Custom sizes, colors, lengths are available with minimum quantity. See page 3 for details.

Features

- Chemically Inert
- Chemical Resistant
- Lightweight & Flexible
- Good Dielectric Properties
- Impermeable to Gases
- Meets FDA Requirements
- NSF-61® Certified

Specifications

- Temperature Range: -50°F To +140°F
- Hardness: Shore A 98A
Shore D 55D
- Vacuum Rating: To 28" Hg
- Tolerances:
1/8" - 1/4" O.D. +/- .004
3/8" - 1/2" O.D. +/- .006

Applications

- Food & Beverage
- Pneumatic Tools
- Pneumatic Piping
- Electrical Jacketing
- Drain Lines
- Instrumentation
- Chemical Transfer
- Process Control
- Laboratories
- Water Purification
- Water Conditioners
- Ice Makers
- Misting systems



Fractional Sizes

Part Number	O.D. (IN)	I.D. (IN)	wall thickness (IN)	bend radius (IN)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
DWPE04M/532A_	4mm,5/32	.106	.025	1.000	180	540	100'	.60
DWPE04M/532B_*	4mm,5/32	.106	.025	1.000	180	540	250'	1.50
DWPE04M/532C_	4mm,5/32	.106	.025	1.000	180	540	500'	3.00
DWPE04M/532D_	4mm,5/32	.106	.025	1.000	180	540	1000'	6.00
DWPE14A_	.250	.170	.040	1.250	150	450	100'	1.20
DWPE14B_*	.250	.170	.040	1.250	150	450	250'	3.00
DWPE14C_	.250	.170	.040	1.250	150	450	500'	6.00
DWPE14D_	.250	.170	.040	1.250	150	450	1000'	12.00
DWPE08M/5/16A_	8mm,5/16	.236	.038	1.500	150	450	100'	1.50
DWPE08M/5/16B_*	8mm,5/16	.236	.038	1.500	150	450	250'	3.75
DWPE08M/5/16C_	8mm,5/16	.236	.038	1.500	150	450	500'	7.50
DWPE08M/5/16D_	8mm,5/16	.236	.038	1.500	150	450	1000'	15.00
DWPE38A_	.375	.250	.062	2.000	150	450	100'	3.00
DWPE38B_*	.375	.250	.062	2.000	150	450	250'	7.00
DWPE38C_	.375	.250	.062	2.000	150	450	500'	14.00
DWPE38D_	.375	.250	.062	2.000	150	450	1000'	25.00
DWPE12A_	.500	.375	.062	2.500	125	375	100'	3.40
DWPE12B_*	.500	.375	.062	2.500	125	375	250'	8.50
DWPE12C_	.500	.375	.062	2.500	125	375	500'	17.00

* = Non Stock Packaged Length _Insert color designation into part number when ordering.

Metric Sizes

Part Number	O.D. (mm)	I.D. (mm)	wall thickness (mm)	bend radius (mm)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
DWPE06MA_	6.0	4.0	1.0	31.8	150	450	100'	1.10
DWPE06MB_*	6.0	4.0	1.0	31.8	150	450	250'	2.75
DWPE06MC_	6.0	4.0	1.0	31.8	150	450	500'	5.50
DWPE06MD_	6.0	4.0	1.0	31.8	150	450	1000'	11.00
DWPE10MA_	10.0	8.0	1.0	51.0	125	375	100'	2.10
DWPE10MB_*	10.0	8.0	1.0	51.0	125	375	250'	5.25
DWPE10MC_	10.0	8.0	1.0	51.0	125	375	500'	10.50
DWPE12MA_	12.0	9.0	1.5	63.5	100	300	100'	2.50
DWPE12MB_*	12.0	9.0	1.5	63.5	100	300	250'	6.50
DWPE12MC_	12.0	9.0	1.5	63.5	100	300	500'	13.00

* = Non Stock Packaged Length _Insert color designation into part number when ordering.

Custom sizes, colors, lengths are available with minimum quantity. See page 3 for details.

Vinyl-Flex™ PVC NSF 61® Tubing

ATP



ATP Vinyl-Flex™ PVC NSF 61® is suitable for general, low-pressure, industrial applications for the conveyance of liquids and semi solids. It also certified with FDA regulations and is NSF 61® certified for use in potable water and food and beverage applications. Although it is not intended for use in higher pressure applications, it does provide good chemical resistance, is lightweight, flexible and economically priced.

Part Numbering System

PVC 18-14 A NA

Polyvinylchloride
Tubing I.D.
Tubing O.D.
Package Length
Color: Clear with
Blue Tint

Package Lengths

A = 100' 2A = 50'

Colors Available

Clear

Part Number	I.D. (IN)	O.D. (IN)	wall thickness (IN)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
PVC18-14ANA	.125	.250	.063	65	195	100'	2.20
PVC316-14ANA*	.187	.250	.032	50	150	100'	1.17
PVC316-516ANA	.187	.313	.062	55	165	100'	2.69
PVC316-38ANA*	.187	.375	.094	60	180	100'	3.75
PVC14-38ANA	.250	.375	.062	55	165	100'	3.35
PVC14-716ANA*	.250	.438	.094	55	174	100'	5.53
PVC14-12ANA	.250	.500	.125	60	180	100'	7.89
PVC516-716ANA	.312	.438	.062	50	150	100'	3.88
PVC516-12ANA*	.312	.500	.094	55	165	100'	6.37
PVC516-916ANA*	.312	.563	.125	60	180	100'	9.22
PVC38-12ANA	.375	.500	.062	45	135	100'	4.65
PVC38-916ANA	.375	.563	.094	50	150	100'	7.47
PVC38-58ANA*	.375	.625	.125	55	165	100'	10.65
PVC716-916ANA*	.437	.563	.062	35	105	100'	6.60
PVC12-58ANA	.500	.625	.062	30	90	100'	6.00
PVC12-1116ANA*	.500	.688	.094	40	120	100'	9.50
PVC12-34ANA	.500	.750	.125	45	135	100'	13.07
PVC58-34ANA	.625	.750	.062	30	75	100'	7.10
PVC58-1316ANA*	.625	.813	.094	35	105	100'	12.32
PVC58-78ANA	.625	.875	.125	40	120	100'	15.72
PVC34-1ANA	.750	1.000	.125	35	105	100'	18.37
PVC34-54ANA*	.750	1.250	.250	45	120	100'	20.00
PVC78-118ANA*	.875	1.125	.125	30	90	100'	33.10
PVC1-54ANA	1.000	1.250	.125	25	75	100'	23.99
PVC1-138ANA*	1.000	1.375	.188	30	90	100'	37.00
PVC54-64ANA	1.250	1.500	.125	20	60	100'	29.00
PVC54-1582ANA	1.250	1.625	.188	30	90	50'	44.60
PVC64-1782ANA	1.500	1.875	.188	30	90	50'	52.70
PVC2-2.52ANA+	2.000	2.500	.250	20	60	50'	30.00

* = Non Stock Packaged Length + = Non NSF 61® Size Certified

Features

Lightweight
Flexible
Food Grade
Clear
DEHP Free

Specifications

Temperature Range:
+15°F To +150°F
Hardness:
Shore A 73 PVC
Meets FDA Requirements
USP Class VI Rated Materials
NSF 61® Certified
RoHS Compliant
Reach Prop 65
Tolerances:
1/8" - 1/2" I.D.: + 0.004/- 0.008
5/8" - 1" I.D.: + 0.008/- 0.012
1.25" - 1.5" I.D.: + 0.012/- 0.016
2" I.D.: + 0.016/- 0.020

Applications

Beverage Dispensing
Drain
Potable Water
Laboratory
Low Pressure Air
Distilled Water Transfer
Light Vacuum
Spa & Hot Tub

Mercury™ PTFE Tubing

ATP



Mercury™ tubing, which is extruded with very tight tolerances, is a good choice for many advanced, high heat applications. Its properties allow exceptional resistance to degeneration of mechanical properties under severe conditions.

Mercury™ tubing does not support combustion and has very good dielectric properties.

Mercury™ PTFE is available in tubing, and spiral profiles.

Package Lengths

A = 100'

Colors Available

Natural

Part Numbering System

PTFE 18 A NA

Polytetrafluoroethylene
Tubing O.D.
Package Length
Tubing Color: Natural

Fractional Sizes

Part Number	O.D. (IN)	I.D. (IN)	wall thickness (IN)	bend radius (IN)	W.P. @70° F (PSI)	4:1 burst pressure	package length	package weight (lbs)
PTFE18ANA	.125	.063	.031	.39	381	1524	100'	1.14
PTFE14-18ANA	.250	.125	.063	1.18	372	1488	100'	2.29
PTFE14-532ANA	.250	.156	.047	1.97	275	1100	100'	2.02
PTFE14-316ANA	.250	.188	.031	2.56	174	696	100'	1.75
PTFE38ANA	.375	.250	.063	4.33	240	960	100'	5.84
PTFE438-38ANA	.438	.375	.032	4.50	95	380	100'	6.0
PTFE12ANA	.500	.375	.063	6.50	150	600	100'	6.5

Metric Sizes

Part Number	O.D. (mm)	I.D. (mm)	wall thickness (mm)	bend radius (mm)	W.P. @70° F (PSI)	4:1 burst pressure	package length	package weight (lbs)
PTFE04MANA	4.0	2.5	.75	25	292	1168	100'	1.51
PTFE06MANA	6.0	4.0	1.0	40	275	1100	100'	2.29
PTFE08MANA	8.0	6.0	1.0	60	180	720	100'	3.20
PTFE10MANA	10.0	8.0	1.0	75	133	532	100'	4.13
PTFE12MANA	12.0	10.0	1.0	100	120	408	100'	6.00

Custom sizes, colors, lengths are available with minimum quantity. See page 3 for details.

Features

- Chemically Inert
- Low Extractible
- Biocompatible - USP Class VI Approved
- Flame Rating: UL 94 V0
- ASTM - D3295
- Meets FDA Requirements
- Easily Cleaned

Specifications

- Temperature Range: -454°F To +500°F
- Hardness: Shore D 55
- Tolerance: 1/8" O.D. +/- .004
- 1/4" - 3/8" O.D. +/- .005
- Vacuum Rating: To 28" Hg

Applications

- Aerospace & Aviation
- Electronic
- Chemical Processing
- Automotive & Medical
- Industrial & Mechanical

Venus™ FEP Tubing

ATP



Venus™ FEP tubing is a more durable alternative to PTFE, yet more flexible. It is a semi-clear material with low permeability, plus it is UV resistant, abrasion resistant, and virtually chemically inert. Venus™ FEP material meets UL94 V0 for flammability and also meets FDA requirements.

Package Lengths

A = 100'

Colors Available

Semi-Clear

Part Numbering System

FEP 18 A

Fluorinated Ethylene Propylene
Tubing O.D.
Package Length

Fractional Sizes

Part Number	O.D. (IN)	I.D. (IN)	wall thickness (IN)	bend radius (IN)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
FEP18A	.125	.063	.031	.39	410	1640	100'	1.14
FEP14-18A	.250	.125	.063	1.18	400	1600	100'	2.29
FEP14-532A	.250	.156	.047	1.97	300	1200	100'	2.02
FEP14-316A	.250	.188	.031	2.56	174	696	100'	1.75
FEP38A	.375	.250	.063	4.33	240	960	100'	5.84
FEP12A	.500	.375	.063	6.50	180	720	100'	6.5

Metric Sizes

Part Number	O.D. (mm)	I.D. (mm)	wall thickness (mm)	bend radius (mm)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
FEP04MA	4.0	2.5	.75	25	292	1168	100'	1.51
FEP06MA	6.0	4.0	1.0	40	275	1100	100'	2.29
FEP08MA	8.0	6.0	1.0	60	180	720	100'	3.20
FEP10MA	10.0	8.0	1.0	75	133	532	100'	4.13
FEP12MA	12.0	10.0	1.0	100	120	408	100'	6.00

Custom sizes, colors, lengths are available with minimum quantity. See page 3 for details.

Features

- Flexible
- Chemically Inert
- Low Extractible
- Biocompatible - USP Class VI Approved
- Flame Rating: UL 94 V0
- ASTM - D3295
- Meets FDA Requirements
- Easily Cleaned

Specifications

- Temperature Range: -400°F To +400°F
- Hardness: Shore D 55
- Tolerance: 1/8" O.D. +/- .004
- 1/4" - 3/8" O.D. +/- .005
- Vacuum Rating: To 28" Hg

Applications

- Aerospace & Aviation
- Electronic
- Chemical Processing
- Automotive & Medical
- Industrial & Mechanical

Armor-Weld™ Spatter Resistant Tubing

ATP



Armor-Weld™ Spatter Resistant, covered polyurethane weld tubing, manufactured by ATP, is specially designed for use in and around welding equipment or other severe-service applications.

Armor-Weld™ is standard, ATP polyurethane tubing covered by an olefin, flame resistant layer. Its ether-based material gives it excellent hydrolysis

properties making it suitable for use in water piping, as well as pneumatic piping and vacuum applications.

Armor-Weld™ tubing can be bonded together to create an ideal, color-coded solution for supply and return lines in robotic welding applications. The covering is separate from the inner tube and is easily stripped. After covering is stripped, **Armor-Weld™** can be used with standard Push-To-Connect type fittings.

Features

- Flame Resistant
- Weld Spatter Resistant
- Oil Resistant
- UV Resistant
- Kink Resistant
- Abrasion Resistant
- Custom Bonding Available
- Custom Spiral Available
- Ether-Based Polyurethane
- Excellent Bend Radius

Specifications

Working Temperature:

-68°F To +140°F

Vacuum Rating:

To 28" Hg

Inside Tube:

Shore A 98

Outer Jacket Rating:

Meets UL94V0 Self

Extinguishing Requirements

Part Numbering System

LE 12M F Y

LE Tubing
Tubing O.D.
Package Length
Tubing color
Insert color designation into part number when ordering

2LE 12M F Y

Bonded LE Tubing
Tubing O.D.
Package Length
Tubing color
Insert color designation into part number when ordering

Stock Color Chart: ● = Stock, x = Non Stock

LE	BK	G	LB	R	Y	W
4mm/5/32	●	x	●	x	●	x
1/4	●	x	●	●	x	x
8mm/5/16	●	●	●	●	●	●
3/8	●	x	●	●	x	x
1/2	●	●	●	x	x	●
6mm	●	●	●	●	●	●
10mm	●	●	●	●	●	●
12mm	●	●	●	●	●	●

BK = Black, G = Green, LB = Light Blue,
R= Red, Y = Yellow, W=White

Armor-Weld™ Spatter Resistant Tubing sizes on page 18

Package Lengths

B = 250'

F = 100 Meters

Applications

- Robotic Welding
- Pneumatic Tools
- Pneumatic Piping
- Vacuum
- Laboratories
- Robotics
- Motion Control
- Instrumentation
- Agriculture
- Ship Piping
- Chemical Plant
- Lube Lines
- Painting Systems



Fractional Sizes

	Part Number	Inner tube O.D.(in)	Inner tube I.D.(in)	Out jacket Thickness (in)	bend radius (in)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
SINGLE	LE04M/532B_	.156	.094	.039	.40	200	600	250'	6.10
	LE14B_	.250	.156	.039	.59	180	540	250'	8.65
	LE08M/516B_	.312	.187	.039	.79	175	525	250'	11.59
	LE38B_	.375	.250	.039	.98	150	450	250'	15.00
	LE12B_	.500	.328	.039	1.17	150	450	250'	23.20
BONDED	2LE04M/532B_	.156	.094	.039	.40	200	600	250'	12.20
	2LE14B_	.250	.156	.039	.59	180	540	250'	17.30
	2LE08M/516B_	.312	.187	.039	.79	175	525	250'	23.18
	2LE38B_	.375	.250	.039	.98	150	450	250'	30.80
	2LE12B_	.500	.328	.039	1.17	150	450	250'	46.40

_Insert color designation into part number when ordering.

Metric Sizes

	Part Number	Inner tube O.D.(mm)	Inner tube I.D.(mm)	Out jacket Thickness (mm)	bend radius (mm)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
SINGLE	LE04M/532F_	4.0	2.5	1.0	10	200	600	100m	8.00
	LE06MF_	6.0	4.0	1.0	15	180	540	100m	10.00
	LE08M/516F_	8.0	5.0	1.0	20	175	525	100m	15.20
	LE10MF_	10.0	6.5	1.0	25	150	450	100m	21.60
	LE12MF_	12.0	8.0	1.0	30	150	450	100m	28.00
BONDED	2LE04M/532F_	4.0	2.5	1.0	10	200	600	100m	16.00
	2LE06MF_	6.0	4.0	1.0	15	180	540	100m	20.00
	2LE08M/516F_	8.0	5.0	1.0	20	175	525	100m	30.40
	2LE10MF_	10.0	6.5	1.0	25	150	450	100m	43.20
	2LE12MF_	12.0	8.0	1.0	30	150	450	100m	56.00

_Insert color designation into part number when ordering.

MonoShield® Single-Core Weld Tubing



Developed by ATP, MonoShield® Weld tubing is specially designed for use in and around welding equipment or other severe-service applications. MonoShield® is a 95 shore A Ether based, flame-resistant, polyurethane tubing. It's ether-based material gives it excellent hydrolysis properties making it suitable for use in water piping, as well as pneumatic piping and vacuum applications. It is the only self extinguishing tubing to date that meets the UL94V0 specifications.

MonoShield® Weld Tubing can be bonded together to create an ideal, color-coded solution for supply and return lines in robot welding applications. With no outer jacket to peel back, MonoShield® allows for ease and speed of installation when used with standard Push-To-Connect type fittings, Custom spiraling is available.

Part Numbering System

MS 12M A Y

MS Tubing
Tubing O.D.
Package Length
Tubing color
Insert color designation into part number when ordering

2MS 12M A Y

Bonded MS Tubing
Tubing O.D.
Package Length
Tubing color
Insert color designation into part number when ordering

Stock Color Chart: ● = Stock, x = Non Stock

MS	BK	G	LB	R	Y	W
4mm/5/32	x	x	x	x	x	x
1/4	●	x	●	x	x	●
8mm/5/16	●	●	●	●	x	●
3/8	●	x	●	x	x	●
1/2	●	x	●	x	x	●
6mm	●	●	●	x	x	●
10mm	●	●	●	●	x	●
12mm	●	●	●	●	x	●
16mm	●	x	●	x	x	●

BK = Black, G = Green, LB = Light Blue, R = Red, Y = Yellow, W = White

Package Lengths

A = 100'
B = 250'

ATP

Features

- Flame Resistant
- Weld Spatter Resistant
- Oil Resistant
- UV Resistant
- Kink Resistant
- Abrasion Resistant
- Custom Bonding Available
- Custom Spiral Available
- Ether-Based Polyurethane
- Excellent Bend Radius
- Silicone-Free
- Shore 95A
- Light Weight

Specifications

- Working Temperature: -68°F To +140°F
- Vacuum Rating: To 28" Hg
- Meets UL94V0 Self Extinguishing Requirements

Applications

- Robot Welding
- Spot Welding
- Severe Service
- Supply/Return Lines
- Cooling Water

MonoShield® Tubing Single-Core Weld Tubing sizes on page 20.

Fractional Sizes

	Part Number	O.D. (IN)	I.D. (IN)	bend radius (IN)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
SINGLE	MS04M/532A_	4mm,5/32	3/32	0.500	200	600	100'	.60
	MS04M/532B_	4mm,5/32	3/32	0.500	200	600	250'	1.50
	MS14A_	1/4	5/32	0.625	180	540	100'	1.50
	MS14B_	1/4	5/32	0.625	180	540	250'	3.75
	MS08M/516A_	8mm,5/16	3/16	0.750	175	525	100'	2.50
	MS08M/516B_	8mm,5/16	5/16	0.750	175	525	250'	6.25
	MS38A_	3/8	1/4	1.000	150	450	100'	3.10
	MS38B_	3/8	1/4	1.000	150	450	250'	7.75
	MS12A_	1/2	21/64	1.250	150	450	100'	6.10
	MS12B_	1/2	21/64	1.250	150	450	250'	15.25
BONDED	2MS04M/532A_	4mm,5/32	3/32	0.500	200	600	100'	1.20
	2MS04M/532B_	4mm,5/32	3/32	0.500	200	600	250'	3.00
	2MS14A_	1/4	5/32	0.625	180	540	100'	3.00
	2MS14B_	1/4	5/32	0.625	180	540	250'	7.50
	2MS08M/516A_	8mm,5/16	3/16	0.750	175	525	100'	5.00
	2MS08M/516B_	8mm,5/16	3/16	0.750	175	525	250'	12.50
	2MS38A_	3/8	1/4	1.000	150	450	100'	6.20
	2MS38B_	3/8	1/4	1.000	150	450	250'	15.50
	2MS12A_	1/2	21/64	1.250	150	450	100'	12.20
	2MS12B_	1/2	21/64	1.250	150	450	250'	30.50

_Insert color designation into part number when ordering.

Metric Sizes

	Part Number	O.D. (mm)	I.D. (mm)	bend radius (mm)	W.P. @70° F (PSI)	3:1 burst pressure	package length	package weight (lbs)
SINGLE0	MS06MA_	6	4.0	16	180	540	100'	1.50
	MS06MB_	6	4.0	16	180	540	250'	3.75
	MS10MA_	10	6.5	25	150	450	100'	3.50
	MS10MB_	10	6.5	25	150	450	250'	8.75
	MS12MA_	12	8.0	30	150	450	100'	5.10
	MS12MB_	12	8.0	30	150	450	250'	12.75
	MS16MA_	16	11.0	55	110	330	100'	9.00
	MS16MB_	16	11.0	55	110	330	250'	22.50
BONDED	2MS06MA_	6	4.0	16	180	540	100'	3.00
	2MS06MB_	6	4.0	16	180	540	250'	7.50
	2MS10MA_	10	6.5	25	150	450	100'	7.00
	2MS10MB_	10	6.5	25	150	450	250'	17.75
	2MS12MA_	12	8.0	30	150	450	100'	10.20
	2MS12MB_	12	8.0	30	150	450	250'	25.50
	2MS16MA_	16	11.0	55	110	330	100'	18.00
	2MS16MB_	16	11.0	55	110	330	250'	45.00

_Insert color designation into part number when ordering.

Custom Straight or Spiral Quote Form

Single or Multi Tube Configurations

Phone: 800.638.1830 Fax: 800.872.9329

In order for us to quote you properly, simply make a copy of this form, fill in your specifications and fax it to 000-872-9329. A drawing will be issued for your approval before production begins. Due to the very special nature of this product, no cancellations can be accepted once production begins.

Copy This Form & Fax it

Straight Technibond

Tube	1	2	3	4	5	6	7	8	9	10
OD										
Color										

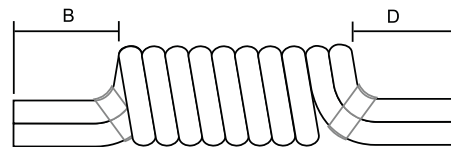
Configuration: Ribbon Stacked Special—Please Contact Me
Add Electric: ATP Standard Wire Special—Please Specify _____
Total Footage Required: 25' 50' 100' 250' 500' 1000' +1000'

Spiraled Technibond

Tube	1	2	3	4	5	6	7	8	9	10
OD										
Color										

Configuration: Ribbon Stacked Pyramid Special—Please Contact Me
Add Electric: ATP Standard Wire Special—Please Specify _____

Working Length:
Tail Dimension B:
Tail Dimension D:
Fittings Required:
Quantity:



Contact Information

Contact _____ E-Mail _____
 Company Name _____
 Address _____
 City _____ State _____ Zip _____
 Phone _____ Fax _____

ima & tri i a ts

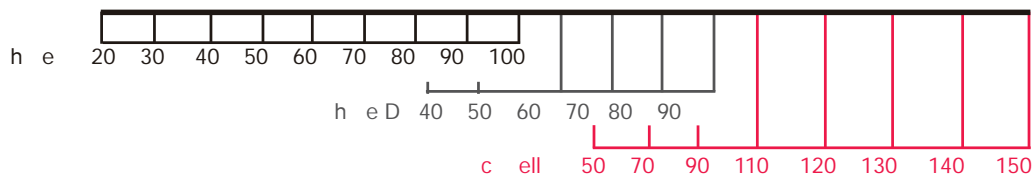
64ths	32nds	16ths	8ths	Decimal	MM
5 4				. 7 1	1. 4
	3 3			. 9375	.3 1
7 4				.1 93	.77
			1	.1 5	3.175
13 4				. 31	5.195
	7 3			. 1 75	5.55
15 4				. 343	5.953
			1 4	. 5	.35
1 4				.3 1	.334
	11 3			.34375	.731
3 4				.3593	9.1
			3	.375	9.5 5
5 4				.39	9.9
	13 3			.4 5	1 .3 9
7 4				.4 1	1 .71
			7 1	.4375	11.113
9 4				.4531	11.5 9
	15 3			.4 75	11.9
31 4				.4 43	1 .3 3
			1	.5	1 .7

64ths	32nds	16ths	8ths	Decimal	MM
33/64				0.51582	13.097
	17/32			0.53125	13.494
35/64				0.54688	13.891
			9/16	0.56250	14.288
37/64				0.57812	14.684
	19/32			0.59375	15.081
39/64				0.60938	15.478
			5/8	0.62500	15.875
45/64				0.70312	17.859
	23/32			0.71875	18.256
47/64				0.73438	18.653
			3/4	0.75000	19.050
53/64				0.82812	21.034
	27/32			0.84375	21.431
55/64				0.85938	21.823
			7/8	0.87500	22.225
61/64				0.95312	24.209
	31/32			0.96875	24.605
63/64				0.98438	25.003
			1	1.00000	25.400

Measurement Conversion Table

To Convert	Into	Multiply By	To Convert	Into	Multiply By
entimete s	nches	.394	nches	entimete s	2.54
	eet	.0382		eet	.0833
	Mete s	.01	Mete s	entimete s	100
	Millimete	10		eet	3.281
eet	entimete	30.48		nches	39.37
	nches	12.00		il mete s	.001
	Mete s	.3048		Miles	.0006214
	Miles	.0001894		Millimete s	1000
	a d	.6777		a ds	1.093
ams	nces	.035	Temperature Conversions		
	nds	.002	c n e t ah enheit de ees int elsi s		
	il am	.001	s t act 32 m lti l 5 and di ide 9.		
			c n e t elsi s int ah enheit		
			m lti l 9 di ide 5 and add 32.		

Hardness Comparison



Ch mi a sista

	Polyurethane	Nylon12	Polyethylene	PVC	PTFE	Weld Tubing Cover
Acids						
Acetic, 3n	B	E	A	A	A	A
Boric, 4%	B	A	A	A	A	A
Chromic, 3n	D	E	A	A	A	—
Citronic, 3n	B	—	A	A	A	—
Formic, 3n	D	A	A	A	A	A
HC1, 3n	A	E	A	A	A	—
Lactic, 3n	C	B	A	A	A	A
Nitric, 3n	D	E	A	A	A	B
Phosphoric, 3n	D	D	A	A	A	A
Sulfuric, <20%	A	B	A	A	A	A
Sulfuric, >20%	B	C	B	A	A	A
Alkalines						
Ammonia, 3n	A	A	—	A	A	A
Potassium Hydroxide, 3n	A	—	A	A	A	A
Sodium Hydroxide, <20%	A	A	A	A	A	A
Sodium Hydroxide, >20%	C	A	—	A	A	A
Aqueous Solution						
Aluminum Chloride, 10%	B	—	A	A	A	A
Ammonium Chloride, 10%	B	A	A	A	A	A
Bleaching Agent, 40%	A	E	—	—	A	A
Bleaching Agent, 100%	B	E	—	—	A	—
Calcium Chloride, 40%	B	A	A	—	A	—
Caustic Soda, 10%	A	A	—	—	A	—
Ferric Chloride, 10%	B	—	A	A	A	A
Hydrogen Peroxide, 3%	A	A	A	A	A	A
Magnesium Chloride, 30%	B	—	A	A	A	—
Potassium Chloride, 40%	B	A	A	—	A	—
Potassium Dichromate, 10%	B	C	A	—	A	—
Potassium Permanganate, 5%	D	D	A	—	A	—
Sea Water	A	A	A	A	A	—
Sodium Bisulfate, 10%	B	A	A	—	A	—
Sodium Chloride, 10%	B	B	A	—	A	—
Sodium Hypochlorite, PH 13	A	B	A	—	A	A
Fuels						
ASTM Fuel A	A	—	—	B	A	—
ASTM Fuel B	C	—	—	C	A	—
ASTM Fuel C	C	—	—	—	A	—
Diesel Fuel	B	A	—	B	A	D
Gasohol (10-15% Methanol)	D	—	—	—	A	—
High-test (Super) Gasoline	D	A	—	—	A	—
Kerosene	A	V	—	B	A	D
Oils						
ASTM Oil #1	A	—	—	B	A	—
ASTM Oil #2	A	—	—	—	A	—
ASTM Oil #3	A	—	—	B	A	—
Brake Fluid (ATE or ATS)	D	A	—	—	A	—
Gear Box Oil (SAE 90)	A	—	—	—	A	—
Hydraulic Fluid	B	—	—	—	A	—
Hydraulic/Water Emulsion	B	—	—	—	A	—
Mineral Oil	A	A	C	A	A	—
Motor Oil	A	A	B	—	A	—
Paraffin Oil	A	A	—	A	A	—
Power Steering Fluid	B	—	—	—	A	—
Skydrol® 500 Oil	D	—	—	—	A	B

	Polyurethane	Nylon12	Polyethylene	PVC	PTFE	Weld Tubing Cover
Greases						
Calcium Grease	A	—	—	—	A	—
Sodium Grease	A	—	—	—	A	—
Teflon® Grease	A	—	—	—	A	—
Miscellaneous						
Diethyl Phthalate (DOP)	A	—	C	C	A	—
Ethylene Chloride	B	C	D	—	A	D
Ethylene Glycol/Water 50/50	B	—	—	A	A	A
Household Cleaner	B	—	—	—	A	—
Naptha	A	—	A	B	A	D
Silage (Silo) Juice	B	—	—	—	A	—
Natural Perspiration	A	—	—	—	A	—
Tincture of Iodine	D	—	—	—	A	—
Tricresyl Phosphate	D	—	—	C	A	—
Solvents						
Acetone	D	A	D	C	A	B
Aniline	D	B	B	B	A	—
Benzene	D	A	D	C	A	D
Benzyl Alcohol	E	—	—	—	A	B
Butane	B	A	—	—	A	B
Butyl Acetate	D	A	B	C	A	—
Butyl Alcohol	D	A	A	—	A	—
Carbon Tetrachloride	D	A	D	C	A	D
Chlorobenzene	D	C	D	C	A	D
Chloroform	D	C	D	C	A	D
Cyclohexane	C	A	—	A	A	D
Ethanol	C	—	B	—	A	B
Ether	C	A	—	—	A	B
Ethyl Acetate	D	A	C	C	A	A
Freon 11, 12, 22	C	—	—	—	A	D
Glycerine & Glycol	A	A	B	A	A	A
Heptane	B	A	D	B	A	—
Hexane	B	A	—	B	A	—
Isopropyl Alcohol	C	A	—	—	A	—
Methanol	C	—	B	—	A	A
Methyl Acetate	D	—	—	C	A	—
Methyl Ethyl Ketone	C	A	—	C	A	—
Methyl Glycol	D	—	—	—	A	—
Methylene Chloride	D	E	D	C	A	—
N-Methyl Pyrrolidone	E	—	—	—	A	—
Perchloroethylene	D	—	—	C	A	—
Petroleum	B	A	—	—	A	—
Pyridine	E	A	—	—	A	B
Tetrachloroethylene	D	—	—	C	A	—
Tetrahydrofuran	D	B	D	C	A	B
Toluene	D	A	D	C	A	D
Trichloroethylene	D	C	D	C	A	D
Turpentine (Pine Oil)	B	A	C	B	A	B
Xylene	D	A	—	C	A	D

Teflon® is a registered trademark of the Dupont Corporation.
Skydrol® is a registered trademark of Monsanto Company.

A Excellent (0-3%)
B Good (4-15%)
C Fair (16-30%)
D Poor (>30%)
E Dissolves

WARNING:
This table is a general guide based on our testing. Although every effort was made to ensure its accuracy, we cannot guarantee your results due to variables in temperature and application. Therefore, no warranty is expressed or implied, and the user assumes all risk and liability.



ATP has developed the latest technology in tubing, hoses and pneumatic accessories. In keeping with current market demands, our products offer ergonomics and safety to help support assembly and automation applications.



Spiral Recoil Hoses

Techniblue™, Technithane™ and our industry exclusives—the “Strong™” and “Strong-Plus™.” A tighter coil ID gives our Strong hoses better memory retention. The “Plus” is a lightweight, ergonomic, hose whip providing surface protection and operator comfort. Custom models are our specialty.



Technifit™ Pneumatic Push-To-Connect Fittings

All are made to extremely tight tolerances and work with ATP tubing to eliminate leaks. Our variety of fittings represents a large selection of the most common models, sizes and materials. Additional models and sizes-including stainless materials and Viton® seals are available as special order.



Technibond®

Thermally-bonded, polyurethane tube groupings available in straight and spiral configurations. Wire can be added to carry electric. Custom configurations welcome with no minimum quantities.



Armor-Air™ Contractors Air Hose

Lightweight, flexible and much more abrasion-resistant than traditional rubber air hoses. A must-have for contractors, and anyone who owns an air compressor. Available with varying hardness and many colors. Reinforced with nylon for greater working pressures. Standard & custom assemblies and spirals.



Free Angle® Swivel Fitting

The rubber boot has been replaced by an exclusive steel cover giving it a much longer service life. Our two rotation points make this superior to the imitators. The ergonomic, patented 360° circular rotation and 45° angled rotation makes this fitting indispensable for air tool and assembly applications.



Hose & Cable Balancers

Durable cases and high-quality internal components make up our balancers. Ideal for workstation ergonomics.



Oetiker® Clamps

The Oetiker® Clamp creates a spring effect when the hose material expands or contracts in response to thermal or mechanical influences such as temperature, vibration, etc. Single ear, double ear and stepless in both carbon steel and stainless steel.



Brass Fittings

ATP offers a full line of brass fittings to meet your connection needs. We offer hose fittings, hose barbs, pipe fittings, and mufflers in both fractional and metric sizes. Available in NPT or BSPT.



Quick Disconnect Couplings

Available in low pressure, steel, brass and stainless for pneumatic applications. Several models of safety couplings are also available from stock.



Blow Guns

ATP offers a wide variety of blow guns ranging from an economical safety blow gun to rugged high end ultra quiet blow guns, all available with various interchangeable nozzles.

How to order: Please preface each ATP part number with ‘R860-’ Example (using the part number): R860-PU04M/532AC

ATP Products are available from MARYLAND METRICS

P.O. Box 261 Owings Mills, MD 21117 USA

ph: (410)358-3130 (800)638-1830 fx: (410)358-3142 (800)872-9329

email: sales@mdmetric.com web: http://mdmetric.com

RFQ form: http://mdmetric.com/rfq.htm

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