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PHARMAFOCUS[®]
P R E M I U M

HIGH PURITY SILICONE TUBING FOR PHARMACEUTICAL AND BIOPROCESSING

PharmaFocus® Premium is a high purity silicone tubing fabricated using a premium silicone raw material specifically formulated to meet the demanding requirements of pharmaceutical, bioprocessing, and pump applications.

Cleanroom manufactured in the United States and Germany within an ISO 13485 certified medical device facility. The U.S. manufacturing facility is FDA registered.

Material certificate and lot traceability are included with every product.

Full compendium of material tests and compliance statements available upon request, this includes:

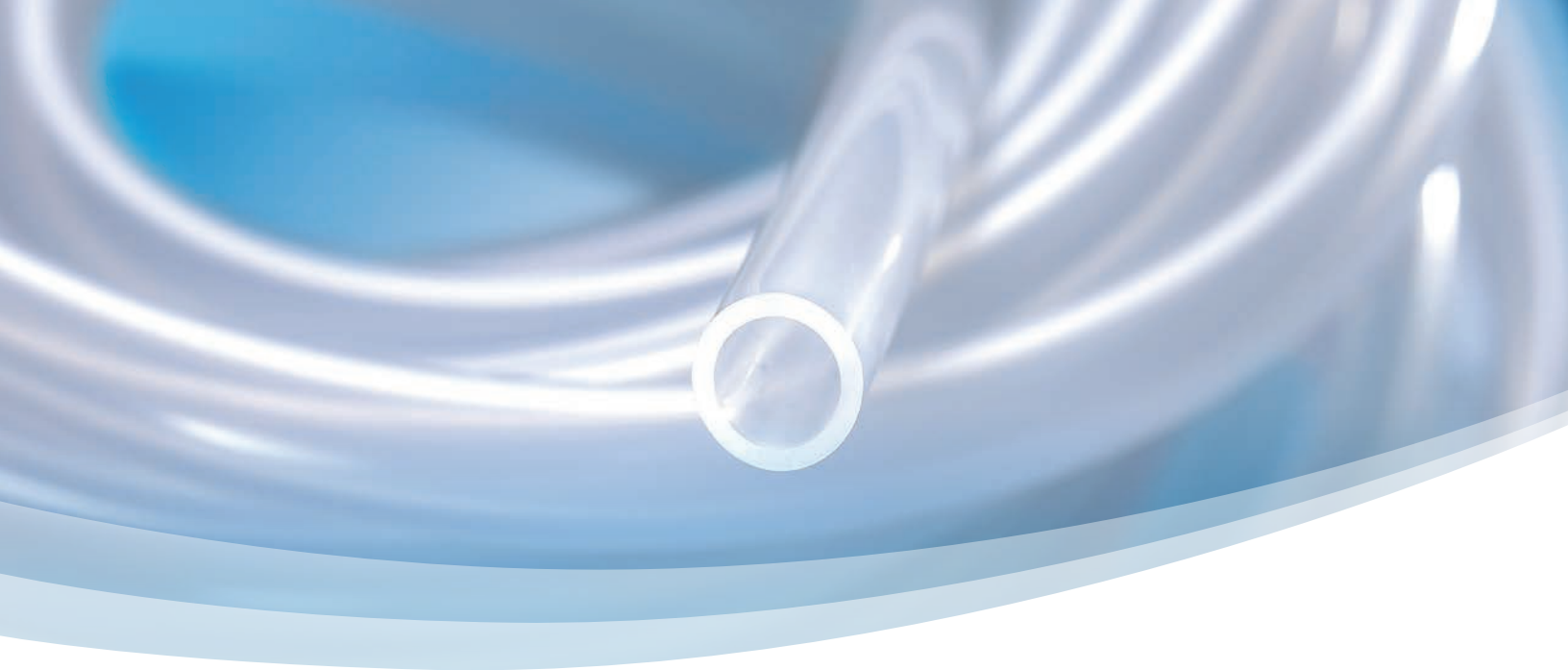
- Extractables test results - BPOG & USP 665 (ASTC, ASTP, ASTR)
- USP Class VI (ASTC, ASTP, ASTR)
- ISO 10993 (ASTC, ASTP, ASTR)
- European Pharmacopoeia 3.1.9 (ASTC, ASTP, ASTR)
- USP 85, 87, 88, 661, 788 (ASTC, ASTP)

Benefits of PharmaFocus® Premium

- Performs in high purity fluid transfer and pump applications
- Tube resilience and adaptability due to excellent flexibility
- High visibility of fluid transport
- Versatile processing with cut-to-length, spools and packaging
- Biocompatibility for demanding biomedical / pharmaceutical applications

Typical Applications:

- Pharmaceutical and biotech processing
- Ultra-pure fluid transfer
- Single-use systems
- Tubing sets
- Peristaltic pumping
- Filling operations
- Laboratory use
- Media processing



PHARMAFOCUS® PREMIUM PERISTALTIC PUMP TUBING

PharmaFocus® Premium Peristaltic Pump Tubing is a high purity silicone tubing specifically designed for peristaltic pumps and pinch valves and is ideal for demanding pumping applications. Our Peristaltic Pump Tubing undergoes a stabilization process unique to Freudenberg Medical that provides the additional benefits of superior strength, performance, and longer life.

Typical hardness: 50 Shore A

PART NUMBER	SPECIFY LENGTH (FT)	ID (IN.)	OD (IN.)
ASTP-14	50	0.062	0.187
ASTP-16	50	0.125	0.250
ASTP-120	50	0.125	0.312
ASTP-25	50	0.187	0.312
ASTP-15	50	0.187	0.375
ASTP-123	50	0.187	0.437
ASTP-17	50	0.250	0.375
ASTP-24	50	0.250	0.437
ASTP-26	50	0.250	0.500
ASTP-35	50	0.312	0.500
ASTP-36	50	0.375	0.562
ASTP-73	50	0.375	0.625
ASTP-190	50	0.125	0.375
ASTP500-4	50	0.500	0.750
ASTP-88	50	0.500	0.875
ASTP-184	50	0.625	0.875
ASTP-191	50	0.750	1.125
ASTP-90	50	0.750	1.250
ASTP-92	50	1.000	1.375

Amesil ASTC / ASTR / ASTP products now offered by Freudenberg Medical

All PharmaFocus® Premium tubing includes material certification and lot traceability.

Spools available upon request

PHARMAFOCUS® PREMIUM SILICONE TUBING

Designed to meet a wide range of performance requirements, PharmaFocus® Premium Silicone Tubing is ideal for demanding fluid transfer processes and pumping applications. These products have been specifically formulated for use with sensitive media found in pharmaceutical and biotech processing. All PharmaFocus® Premium tubing includes material certification and lot traceability

Typical hardness: 50 Shore A

Typical Applications:

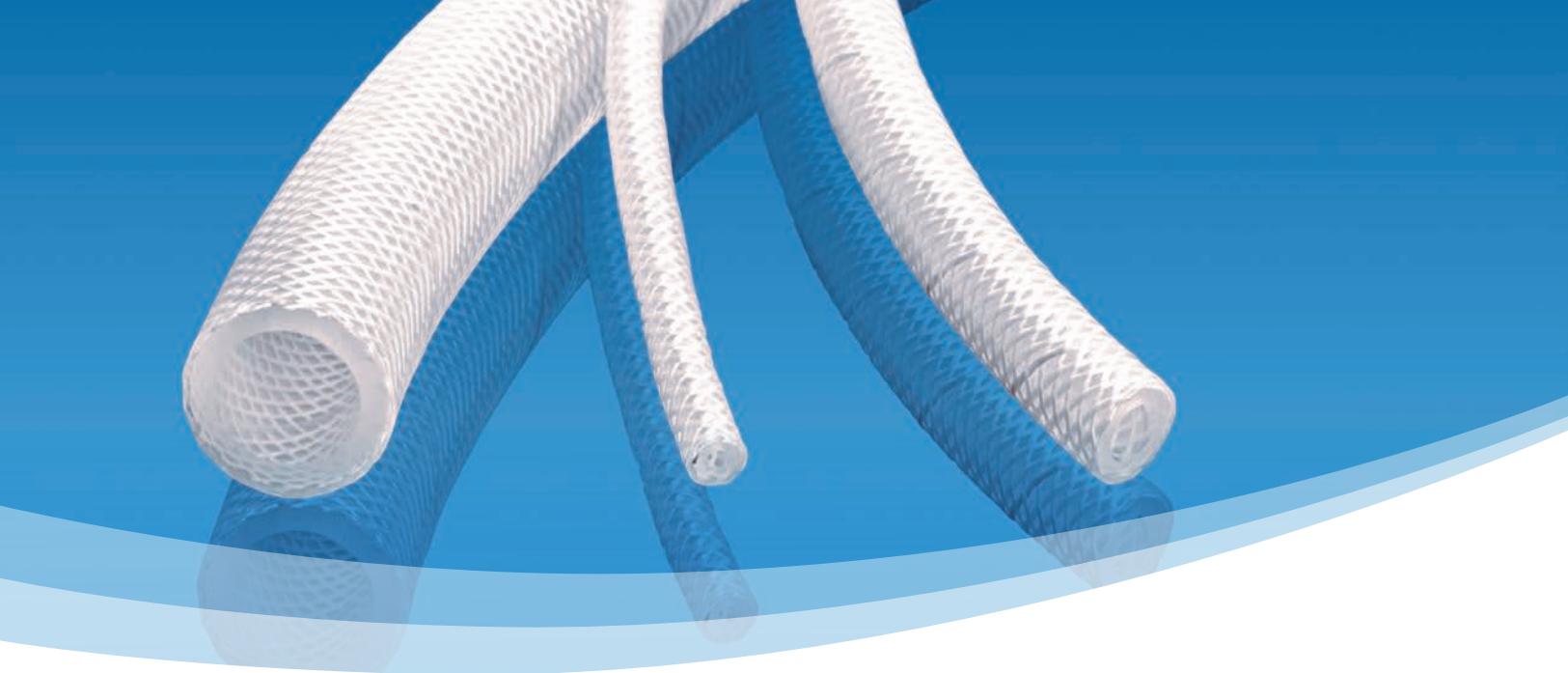
- Pharmaceutical and biotech processing
- Ultra-pure fluid transfer
- Filling operations
- Laboratory use
- Media processing

PART NUMBER	SPECIFY LENGTH (FT)	ID (IN.)	OD (IN.)
ASTC062-2A50	50	0.062	0.187
ASTC062-3A50	50	0.062	0.250
ASTC078-2A50	50	0.078	0.203
ASTC078-4A50	50	0.078	0.328
ASTC093-2A50	50	0.093	0.218
ASTC125-2A50	50	0.125	0.250
ASTC125-3A50	50	0.125	0.312
ASTC125-4A50	50	0.125	0.375
ASTC156-2A50	50	0.156	0.281
ASTC156-3A50	50	0.156	0.343
ASTC156-4A50	50	0.156	0.406
ASTC187-2A50	50	0.187	0.312
ASTC187-3A50	50	0.187	0.375
ASTC187-4A50	50	0.187	0.437
ASTC250-2A50	50	0.250	0.375
ASTC250-3A50	50	0.250	0.437
ASTC250-4A50	50	0.250	0.500
ASTC250-5A50	50	0.250	0.625
ASTC312-2A50	50	0.312	0.437
ASTC312-3A50	50	0.312	0.500
ASTC312-4A50	50	0.312	0.562
ASTC375-2A50	50	0.375	0.500
ASTC375-3A50	50	0.375	0.562
ASTC375-4A50	50	0.375	0.625
ASTC375-5A50	50	0.375	0.750
ASTC500-2A50	50	0.500	0.625
ASTC500-3A50	50	0.500	0.687
ASTC500-4A50	50	0.500	0.750
ASTC500-5A50	50	0.500	0.875
ASTC562-3A50	50	0.562	0.750
ASTC625-4A50	50	0.625	0.875
ASTC750-4A50	50	0.750	1.000
ASTC750-5A50	50	0.750	1.125
ASTC750-6A50	50	0.750	1.250
ASTC875-4A50	50	0.875	1.125
ASTC875-5A50	50	0.875	1.250
ASTC1000-4A50	50	1.000	1.250
ASTC1000-5A50	50	1.000	1.375

Amesil ASTC / ASTR / ASTP products now offered by Freudenberg Medical

All PharmaFocus® Premium tubing includes material certification and lot traceability.

Spools available upon request



PHARMAFOCUS® PREMIUM REINFORCED TUBING

PharmaFocus® Premium Reinforced Silicone Tubing is available with single-braid reinforcement for enhanced performance in high pressure and vacuum applications. All reinforced silicone tubing is manufactured with an inner layer of platinum-cured silicone for ultra-pure fluid transfer and meets a diverse range of pharmaceutical and bioprocessing applications.

Engineered with superior flexibility, our premium tubing allows for excellent resilience and bend radius. To meet a diverse range of application needs, PharmaFocus® Premium Reinforced Tubing is constructed to prevent kinking and compression and can withstand extreme temperature and pressure. All PharmaFocus® Premium tubing includes material certification and lot traceability.

Typical hardness: 65 Shore A

PART NUMBER	SPECIFY LENGTH (FT)	ID (IN.)	OD (IN.)
ASTR187-A65	50	0.187	0.407
ASTR250-A65	50	0.250	0.490
ASTR312-A65	50	0.312	0.592
ASTR375-A65	50	0.375	0.625
ASTR500-A65	50	0.500	0.800
ASTR625-A65	50	0.625	0.965
ASTR750-A65	50	0.750	1.100
ASTR875-A65	50	0.875	1.235
ASTR1000-A65	50	1.000	1.360

Typical Applications:

- Pharmaceutical and biotech processing
- High volume ultra-pure fluid transfer
- Purification processes
- High pressure and bulk liquid transfers
- Load Cells
- Skid transfer
- Process lines

Amesil ASTC / ASTR / ASTP products now offered by Freudenberg Medical

All PharmaFocus® Premium tubing includes material certification and lot traceability.

Spools available upon request

Freudenberg Medical manufactures products exclusively for the medical and pharmaceutical industry. This focus enables us to understand and rapidly and efficiently fulfill our customers' precise requirements. Our capabilities as a supplier and partner in the development of products and solutions are distinguished by exceptional flexibility and innovation.

We are your global partner for the design, development and production of innovative medical technology and combination products. Our portfolio is comprised of complex medical components and catheter solutions for minimally invasive devices. We are a leading manufacturer not only in the field of precision molded components and tubing in silicone and thermoplastics, but also in coating technologies, metal hypotubes and combination products.

Freudenberg Medical is a part of the Freudenberg Group, a technology group with a tradition reaching back over 170 years and a provider of innovative products for more than 30 market segments around the globe.

In our daily work, both our corporation and individual employees are committed to upholding the values for which we all stand:

- Value for customers
- Innovation
- Leadership
- People
- Responsibility and
- Long term orientation

As a development partner, we ensure that every innovation project our customers entrust to us is realized and led to commercial success by our unique combination of technical expertise, a global R&D network, financial stability and enormous flexibility.