



*High-performance
Hoses, Ducts and
Connectors for the
Railcar Industry.*

FLEXFAB
Transportation Group

Flexfab is a pioneer in the manufacturing and processing of silicone and other reinforced elastomeric hoses, ducts and connectors for the railcar industry.

Since 1961, Flexfab has led the way in elastomer product engineering and design. Our knowledge of fabrics and materials is unmatched in the industry. Many of the advances in the use of silicone elastomers have come from Flexfab research and development.

By continually researching new materials and manufacturing techniques, we are able to provide our customers with new design and production solutions.

We are an ISO 9001 and QS 9000 company, and our products meet ASTM E662 and E162 specifications. Major manufacturers around the world have come to rely on us for the highest quality air-distribution ducting and related components.

Sleeves and Connectors



Application

- Superior connection between rigid ducting in environmental control systems and instrument cooling lines.
- 2-ply construction design for applications up to 20 PSI.
- 3-ply construction for uses to 40 PSI.

Construction

- Silicone rubber inner surface with two or more plies woven fiberglass fabric coated with silicone.
- Diameter: .50" through 12.00" ID.
- Length: 2" through 144".
- Other constructions available on request.

Characteristics

- Resists lubricants, fuels, ozone and coolants.
- 20 year minimum life.

Operating Temperature

- -65°F to +550°F (-54°C to +288°C).

Flexible Ducting

Application

- SIL-2 flexible HVAC ducting.
- Designed for medium pressure handling of air, dust, fumes and light powders.

Construction

- 2-ply. Smooth inner ply and cover ply of silicone-coated, woven fiberglass.
- Chemically-treated, helically-wound, spring steel wire for flexibility.
- Double, continuous filament, silicone-coated fiberglass cord.
- Vulcanized for long service life.
- Abrasion-resistant cover and liner available.

Operating Temperature

- -80°F to 600°F (-62°C to +316°C).



Not recommended for handling liquids or abrasive materials.



Ultra Lightweight Air Ducting

Flexfab lightweight flexible ducting is ideal for heating, ventilation, air conditioning and other applications where weight is an important consideration. Flexfab lightweight ducting typically saves up to 33 percent of weight compared to conventional ducting and allows easier and faster installation. Stock and custom designs are offered.

Silicone elastomers are highly resistant to hardening, cracking, stress, aging and temperature extremes. They feature smooth bore, are available with flexible tapers and meet ASTM E662 and E162 flammability standards.

Application

- Lightweight air handling hoses and ducts for low positive and negative pressure applications and low to high temperature applications (see chart).

Construction

- Flexible lightweight material, reinforced with external helically-wound nylon. Resistant to oils, solvents, ozone, fungus, alkalis and water.

Not recommended for handling liquids, powders or abrasive materials.

FLX4008 Lightweight Silicone*

Coated on medium weight woven fiberglass body. Cuff is silicone rubber coated on woven fiberglass.

Diameter (in.)	Operating Pressure	Minimum Inside Bend Radius	Weight (lb./in. ID/ft. length)	Cuff Weight (lb./in. ID/cuff)
0.50 to 1.00	-0.5 to +13 PSI	1.0 x ID	0.0504	0.016
1.25 to 2.00	-0.5 to +7 PSI	1.0 x ID	0.0564	0.011
2.25 to 3.00	-0.5 to +5 PSI	1.0 x ID	0.0600	0.010
3.25 to 4.00	-0.5 to +4 PSI	1.0 x ID	0.0600	0.010
4.25 to 5.00	-0.5 to +3 PSI	1.0 x ID	0.0840	0.010
5.25 to 6.00	-0.5 to +2 PSI	1.0 x ID	0.0840	0.010
6.25 to 8.00	-0.5 to +2 PSI	1.0 x ID	0.1560	0.014
8.25 to 10.00	-0.5 to +2 PSI	1.0 x ID	0.1800	0.015
10.25 to 12.00	-0.5 to +2 PSI	1.0 x ID	0.2040	0.016

* Vacuum Capability on FLX4008. Temperature Range -65°F to +250°F (-54°C to +121°C).

All diameters are available in 1/4 inch increments; other diameters available on request. Standard lengths 4.00" to 240.00". Custom lengths are available on request. Maximum SCFM/in. ID/ft. length is .015.

Gray Water Drain Hoses

Application

- Lightweight.
- Waste water (gray water) removal.

Construction

- Silicone-lined fiberglass, reinforced wire-supported.

Characteristics

- Operating pressure: negative 10 PSI proof pressure to positive 50 PSI. (Elbows, Y's and T's are 100 PSI.)
- Flame resistant.

Operating Temperature

- -65°F to +250°F (-54°C to +121°C).



Mufflers / Silencers



Application

- Reduce air noise in environmental controlled systems.
- Can be custom designed to meet your particular noise problem.

Construction

- Silicone with nylon cord reinforcement.
- Nomex® or other insulation materials are available.
- Acoustical information available upon request.
- A wide range of diameters and lengths are available.

Characteristics

- Operating pressure 0 to 1 PSI.

Operating Temperature

- -65°F to +250°F (-54°C to +121°C).

In addition to the products in this brochure, Flexfab also has extensive experience in the design and manufacture of custom-molded elastomer products for the transportation industry, including electrical wiring harness seals, hood straps and weather seals.

FLEXFAB ^{FF}
® DIVISION

COMMITTED TO EXCELLENCE IN ENGINEERED ELASTOMERIC PRODUCTS SINCE 1961

A MEMBER OF THE **FHI** FAMILY
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