

RFQ-ready catalog

Pure-Flon Fluoropolymer Tubing Catalog

RFQ-ready technical catalog for PTFE, PFA, FEP, flexible hose, custom-engineered connectors, metric and inch tubing references.

Technical specification tables are reorganized into a Pure-Flon buyer review path. Company introduction pages and supplier contact details are excluded.

PTFE / PFA	FEP	RFQ
65 deg C - 260 deg C	65 deg C - 205 deg C	pure-flon.com/quote



Buyer review path

Review tubing families, dimensions, pressure references, and system parts in one path.

Buyer action	What to prepare	Pure-Flon review output
Shortlist material	Media, temperature, pressure, transparency, static control, and clean-handling needs.	Priority review path across PTFE, PFA, FEP, hose, or custom connectors.
Confirm dimensions	ID, OD, wall, tolerance, length, bend radius, and quantity.	Metric or inch sizing review plus manufacturing feasibility notes.
Request quote	Application environment, target lead time, destination country, certificate and packaging needs.	RFQ response path through pure-flon.com/quote .

Send the RFQ through pure-flon.com/quote and include the checklist details above.

Material family matrix

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Family	Best-fit sourcing signal	Reference temperature	Buyer note
PTFE Tubing	Chemical resistance, heat resistance, low friction, and insulation.	65 deg C - 260 deg C	Use when durability and broad compatibility matter more than visual flow inspection.
PFA Tubing	High-purity chemical routing with visible clean flow.	65 deg C - 260 deg C	Start here when transparency and high-temperature stability both matter.
FEP Tubing	Transparent, non-stick routing in a moderate temperature window.	65 deg C - 205 deg C	A practical transparent option when PFA's upper heat range is not required.
Flexible Hose	Bend, pressure, assembly, and connection constraints.	Application-dependent	Send routing geometry and connection conditions for faster review.
Custom-Engineered Connectors	When tube connection conditions need a custom connector review.	Application-dependent	Keep the request focused on connection conditions and custom connector review.

Tubing key features

PTFE, PFA, and FEP tubing share chemical resistance, stable temperature performance, and non-stick or low-friction behavior. Select between them by transparency need, upper temperature range, and whether visible clean flow is required.

Family	Buyer note
PTFE Tubing	Chemical resistance and heat stability
PFA Tubing	High transparency and resistance
FEP Tubing	Non-stick and versatile routing

PTFE spaghetti tubing precision specs

Final values depend on application conditions, material grade, and manufacturing review.

OD	ID	Wall	Tolerance	Buyer note
0.8 mm	0.3 mm	0.25T	+/- 0.05 mm	High precision micro-tubing
1.0 mm	0.5 mm	0.25T	+/- 0.05 mm	AWG standard shortlist
1.3 mm	0.8 mm	0.25T	+/- 0.05 mm	Dielectric routing
1.5 mm	1.0 mm	0.25T	+/- 0.05 mm	Chemical and thermal resistance
2.0 mm	1.5 mm	0.25T	+/- 0.05 mm	Low-friction routing
2.5 mm	2.0 mm	0.25T	+/- 0.05 mm	Non-stick compact line

PTFE/PFA metric pressure reference

Pressure values are reference inputs at 23 deg C and can decrease as operating temperature rises.

Material	Size	Burst pressure	Working pressure	Tolerance	Min. bend radius
PTFE	4/2 mm	120 bar	30 bar	+/- 0.15 mm	10 mm
PTFE	4/2.5 mm	100 bar	25 bar	+/- 0.15 mm	13 mm
PTFE	4/3 mm	65 bar	10 bar	+/- 0.15 mm	25 mm
PTFE	8/6 mm	45 bar	10 bar	+/- 0.20 mm	45 mm
PTFE	10/8 mm	35 bar	7.5 bar	+/- 0.20 mm	70 mm
PTFE	12/10 mm	30 bar	6.25 bar	+/- 0.20 mm	105 mm
PTFE	14/12 mm	24 bar	5.5 bar	+/- 0.20 mm	140 mm
PTFE	16/14 mm	18 bar	4.5 bar	+/- 0.30 mm	140 mm
PFA	4/2 mm	120 bar	30 bar	+/- 0.10 mm	10 mm
PFA	4/2.5 mm	100 bar	25 bar	+/- 0.10 mm	13 mm
PFA	4/3 mm	65 bar	10 bar	+/- 0.10 mm	25 mm
PFA	8/6 mm	45 bar	10 bar	+/- 0.10 mm	45 mm
PFA	10/8 mm	35 bar	7.5 bar	+/- 0.10 mm	70 mm
PFA	12/10 mm	30 bar	6.25 bar	+/- 0.10 mm	105 mm
PFA	14/12 mm	24 bar	5.5 bar	+/- 0.10 mm	140 mm
PFA	16/14 mm	18 bar	4.5 bar	+/- 0.10 mm	140 mm

Reference standards: ASTM D3295 PTFE and ASTM D3307 PFA where applicable.

PTFE/PFA inch pressure reference

Pressure values are reference inputs at 23 deg C and can decrease as operating temperature rises.

OD	Wall	OD	ID	Burst pressure	Working pressure	Tolerance	Min. bend radius
1/4"	1.2T	6.35 mm	3.96 mm	120 bar	30 bar	+/- 0.2 mm	25 mm
3/8"	1.5T	9.5 mm	6.5 mm	60 bar	8.75 bar	+/- 0.2 mm	40 mm
1/2"	1.5T	12.7 mm	9.7 mm	30 bar	7.5 bar	+/- 0.2 mm	105 mm
3/4"	1.5T	19 mm	16 mm	25 bar	6.25 bar	+/- 0.3 mm	120 mm
1"	1.5T	25.4 mm	22.4 mm	20 bar	5.5 bar	+/- 0.3 mm	430 mm

Flexible hose and custom-engineered connectors

Send the RFQ through pure-flon.com/quote and include the checklist details above.

Path	What to send	Review result
Flexible hose	Routing geometry, bend radius, pressure, media, and connection method.	Flexible hose application review.
Custom-engineered connectors	Tube connection condition.	Custom connector review.



Final values depend on application conditions, material grade, and manufacturing review.

RFQ checklist

Send the RFQ through pure-flon.com/quote and include the checklist details above.

Required input	Example detail
Application environment	Chemical media, operating temperature, pressure, and duty cycle.
Dimensional target	ID, OD, wall, tolerance, length, bend radius, and quantity.
Material signal	PTFE, PFA, FEP, hose, custom connector, or unclear; Pure-Flon can help shortlist.
Quality and handling	Clean handling, packaging, transparency, static control, or inspection requirement.
Commercial route	Country, target date, sample need, and preferred reply email.

Next step

Send the RFQ through pure-flon.com/quote and include the checklist details above.