

WIRE BRAIDED PTFE HOSES

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PTFE Lined Braided Covered Silicone Reinforced Hose

ITST

ITST is PTFE tubing covered with SS 304 braid reinforcement having outer layer of platinum grade silicone. ITST is having capacity to withstand high pressure along with greater chemical resistance. The product is having ultra smooth bore which enhances superior flow properties & least adhesion to particulates. The outer layer of silicone cover acts as insulation to high temperature and keeps outer surfaces dust free.

This product conforms to US FDA 21 CFR 117.2600 Food Grade Standard, Conforms to USP Class VI, Conforms to ISO 10993-1, ROHS certified, free of restricted heavy metals, Free of Phthalate/Bisphenol/Volatile Plasticizer, Animal Origin Certification (free of animal derived material), USFDA DMF accreditation #26201, Complete validation package available upon request



SPECIFICATIONS

Inner Bore: PTFE tubing

Reinforcement: SS 304 braid reinforcement

Outer surface: platinum grade silicone

Applications:

Pharmaceutical Processing, Food Processing, High Pressure Fluid Transfer, High Temp. Fluid Transfer, Cosmetic Industries.

Key Features:

Excellent chemical resistance. Permits easy cleaning, Smooth silicone cover provides safety to operator while handling high temperature. Prevents operator from injury due to "Frayed" SS Braids. Lot traceable

Temperature range: -

80 °C to 230°C. Available with SS316 L Tri-Clover end Sterilizable by Autoclave



Product Number	ø I.D		ø O.D.		Working Pressure		Burst Pressure		Bend Radius	
	Ins. diameter		Outs. Diameter		(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)
	(mm.)	(in.)	(mm.)	(in.)						
ITST-0236	6.0	0.236	13.0	0.512	1813	125	5439	375	80	3.15
ITST-0354	9.0	0.354	16.0	0.630	1450	100	4351	300	130	5.12
ITST-0500	12.0	0.472	20.0	0.787	1305	90	3916	270	170	6.69
ITST-0630	16.0	0.630	24.0	0.945	1160	80	3481	240	200	7.87
ITST-0748	19.0	0.748	27.0	1.063	725	50	2176	150	220	8.66
ITST-0984	25.0	0.984	35.0	1.378	580	40	1740	120	350	13.78
ITST-1260	32.0	1.260	42.0	1.654	508	35	1523	105	400	15.75
ITST-1457	37.0	1.457	47.0	1.850	508	35	1523	105	C/P	-
ITST-1969	50.0	1.969	62.0	2.441	435	30	1305	90	C/P	-

PTFE Corrugated Core Steel braided Hose

APFOS

Stainless steel over braided PTFE hose is constructed of virgin material with a 300 series stainless steel wire braid reinforcement jacket. The fluoropolymer core is inert and offers long flexural life, low permeability, non-flammability, and the lowest coefficient of friction of any solid material. The stainless steel over-braid permits higher pressure uses, reduces the possibility of kinking, and generally protects the core. Optional silicone jacketing offers protection from high temperatures during handling and keeps the outer surface clean and smooth.

- Excellent chemical compatibility.
- Resists moisture.
- Easily cleaned or sterilized by autoclave, steam, or detergent.
- Optional silicone jacketing makes stainless steel reinforced hose easier to handle by offering heat protection.
- Silicone jacketing also provides a smooth outer surface to eliminate particle entrapment for sanitary conditions.
- Full line of crimp fittings and custom assemblies offered
- Custom lengths, sizes, other over braiding materials, special cleaning, and/or packaging is available
- Add stainless steel armor casing or cuffs for an extra layer of protection from crushing, kinking, harsh environments, and abrasion while still allowing flexibility
- Laser-etched stainless steel collars for hose identification available



SPECIFICATIONS

Inner Bore: True Bore PTFE Smooth Core offers maximum flow, Convoluted Core offers excellent flow with enhanced flexibility.

Reinforcement: SS 304 braid reinforcement.

Stock sizes for True Bore Smooth Core: 1/4 in. through 1 1/2 in.

Convoluted Core: 1/2 in. through 3 in.
Hose liner meets FDA 21 CFR 177.1550, ISO 10993 Section 5,6,10 and 11 and is made from USP Class VI compliant material

General temperature range: -100°F (-73.3°C) to 450° F (232.2°C)



White PTFE Core, Smooth I.D., 304 S. Steel Reinforcement

Product Number	I.D.		O.D.		Working Pres. at 22°C		Burst Pres. at 22°C		Minimum Bend Radius		Weight per foot
	Ins. diameter		Outs. Diameter								
	(mm.)	(in.)	(mm.)	(in.)	(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)	(lbs.)
APFOS-W-0250	6.35	0.250	9.4	0.370	207.0	3.000	828.0	12.000	76.2	3.0	0.08
APFOS-W-0375	9.53	0.375	13.0	0.510	138.0	2.000	552.0	8.000	127.0	5.0	0.11
APFOS-W-0500	12.70	0.500	16.0	0.630	120.7	1.750	483.0	7.000	165.1	6.5	0.16
APFOS-W-0750	19.05	0.750	22.4	0.880	69.0	1.000	276.0	4.000	215.9	8.5	0.20
APFOS-W-1000	25.40	1.000	28.7	1.130	69.0	1.000	276.0	4.000	304.8	12.0	0.33
APFOS-W-1500DB*	38.10	1.500	43.9	1.730	62.1	900	248.4	3.600	381.0	18.0	0.79

*Double Braided

White PTFE Core, Convuluted I.D., 316 S. Steel Reinforcement

Product Number	I.D.		O.D.		Working Pres. at 22°C		Burst Pres. at 22°C		Minimum Bend Radius	
	Ins. diameter		Outs. Diameter							
	(mm.)	(in.)	(mm.)	(in.)	(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)
APFOS-WC-0500	12.70	0.500	18.3	0.720	103.5	1.500	414.0	6.000	38.1	1.50
APFOS-WC-0750	19.05	0.750	25.9	1.020	82.8	1.200	331.2	4.800	50.8	2.00
APFOS-WC-1000	25.40	1.000	33.3	1.310	68.9	1.000	276.0	4.000	63.5	2.50
APFOS-WC-1500	38.10	1.500	49.0	1.930	44.8	650	179.4	2.600	95.2	3.75
APFOS-WC-2000	50.80	2.000	61.5	2.420	31.0	450	124.2	1.800	120.6	4.75
APFOS-WC-3000HW*	76.20	3.000	96.5	3.800	12.0	175	48.3	0.700	355.6	14.00

*Heavy Wall

Silicone Jacketed, White PTFE Core, Smooth I.D., 304 S. Steel Reinforcement

Product Number	I.D.		O.D.		Working Pres. at 22°C		Burst Pres. at 22°C		Minimum Bend Radius	
	Ins. diameter (mm.)	(in.)	Outs. Diameter (mm.)	(in.)	(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)
APFOSJ-W-0250	6.35	0.250	13.72	0.540	174.4	2.530	699.8	10.150	75.0	3.0
APFOSJ-W-0375	9.53	0.375	17.12	0.674	134.4	1.950	539.8	7.830	127.0	5.0
APFOSJ-W-0500	12.70	0.500	20.42	0.804	119.9	1.740	479.8	6.960	152.0	6.0
APFOSJ-W-0750	19.05	0.750	26.92	1.060	89.6	1.300	359.9	5.220	203.0	8.0
APFOSJ-W-1000	25.40	1.000	34.06	1.341	64.8	0.940	259.9	3.770	304.8	12.0

Tolerances: ±1% on bulk hose lengths

Silicone Jacketed, White PTFE Core, Convoluted I.D., 316 S. Steel Reinforcement

Product Number	I.D.		O.D.		Working Pres. at 22°C		Burst Pres. at 22°C		Minimum Bend Radius	
	Ins. diameter (mm.)	(in.)	Outs. Diameter (mm.)	(in.)	(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)
APFOSJ-WC-0500	12.70	0.500	23.62	0.930	110.3	1.600	439.8	6.380	50.8	2.0
APFOSJ-WC-0750	19.05	0.750	31.12	1.225	68.9	1.000	279.9	4.060	76.2	3.0
APFOSJ-WC-1000	25.40	1.000	37.72	1.485	49.9	0.725	199.9	2.900	101.6	4.0
APFOSJ-WC-1500	38.10	1.500	51.71	2.036	41.3	0.600	159.9	2.320	152.4	6.0

Tolerances: ±1% on bulk hose lengths

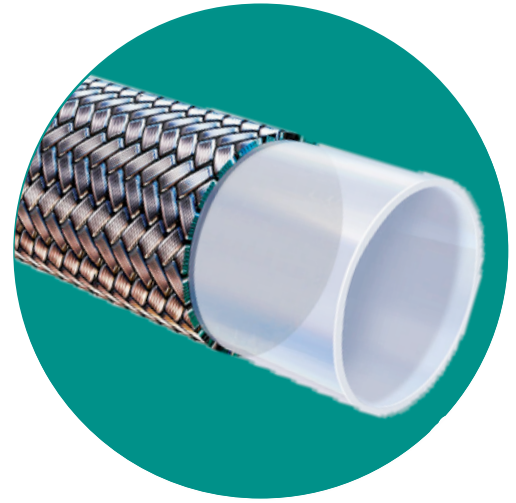
PTFE Core Steel Braided Hose

SFOS

The GECITECH® smooth core PTFE hose is the perfect solution for the transfer of chemical products, solvents, steam both at high temperature and pressure. It remains inert to the products conveyed in the hoses.

The non-stick quality of the PTFE allows a good flow of the conveyed liquids, and with a minimum pressure loss. The hose must **not be used** with fluorine gas or alkaline metals. Dectum et; esciae morunu inatum quem potebus. Vatante batura, sedo, tusperum menatorum ocume contra reto es critus es o iurives, sedem urnihil iurnius norum inte igit; Catem Palabeffre poptent vastratquiu modiis.

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SPECIFICATIONS

Inner Bore: Smooth PTFE tubing

Reinforcement: SS 304 braid reinforcement.

Certification: Hose convenient for food contact and is compliant with the FDA 21 CFR 177 1550 regulation and USP Class VI, as well as European.

Working temperature range: -70 °C to +260°C



Product Number	ø I.D		ø ext.		Working Pressure		Burst Pressure		Bend Radius	
	Ins. diameter		Outs. Diameter							
	(mm.)	(in.)	(mm.)	(in.)	(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)
SFOS-W-0190	5.11	0.20	8.05	0.32	264	3828	793	11501	64	2.52
SFOS-W-0250	6.71	0.26	9.34	0.37	224	3248	672	9746	76	2.99
SFOS-W-0310	8.41	0.33	11.05	0.44	207	3002	621	9006	102	4.02
SFOS-W-0380	10.29	0.41	13.44	0.53	183	2654	552	8006	133	5.24
SFOS-W-0500	13.21	0.52	16.55	0.65	161	2335	483	7005	152	5.98
SFOS-W-0630	16.61	0.65	19.76	0.78	114	1653	345	5003	178	7.01
SFOS-W-0750	19.81	0.78	22.96	0.90	103	1493	310	4496	203	7.99
SFOS-W-1000	26.11	1.03	29.26	1.15	80	1160	241	3495	305	12.01

PTFE Core Steel Braided High Pressure Hose

SFOSHP

The PTFE hose very high pressure is the perfect solution for the transfer of chemical products, solvents, steam both at high temperature and pressure. The non-stick quality of the PTFE allows a good flow of the conveyed liquids, and with a minimum pressure loss.



SPECIFICATIONS

Inner Bore: PTFE antistatic resin

Reinforcement: stainless steel braid 304L

Certification: Hose convenient for food contact and is compliant with the FDA 21 CFR 177 1550 regulation

Working temperature range:

- In static use: -60 °C to +200°C



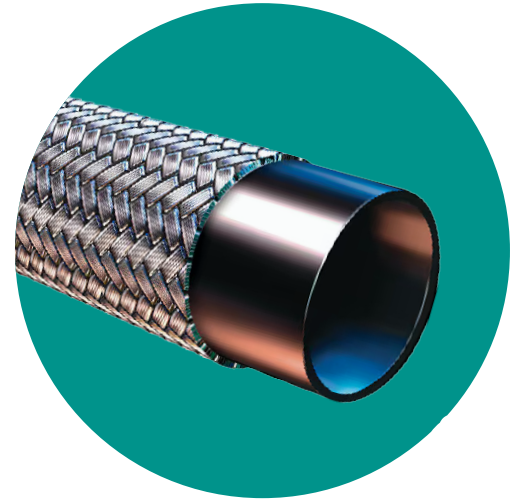
Product Number	ø I.D. Ins. diameter		ø O.D. Outs. Diameter		Working Pressure		Burst Pressure		Bend Radius	
	(mm.)	(in.)	(mm.)	(in.)	(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)
SFOS-HP-0260	6.70	0.26	11.49	0.45	350	5076	1100	15954	65	2.56
SFOS-HP-0330	8.40	0.33	13.28	0.52	350	5076	1100	15954	90	3.54
SFOS-HP-0400	10.28	0.40	15.07	0.59	350	5076	1100	15954	100	3.94
SFOS-HP-0520	13.21	0.52	18.91	0.74	350	5076	1100	15954	120	4.72
SFOS-HP-0650	16.61	0.65	22.72	0.89	350	5076	1100	15954	160	6.30
SFOS-HP-0780	19.81	0.78	30.13	1.19	350	5076	1100	15954	200	7.87
SFOS-HP-1030	26.11	1.03	36.94	1.45	350	5076	1100	15954	250	9.84

Information given for ambient temperature (20°C)

PTFE Core Steel Braided Carbon Charged Hose

SFOS-B

The smooth core PTFE hose is the perfect solution for the transfer of chemical products, solvents, steam both at temperature and pressure. The non-stick quality of the PTFE allows a good flow of the conveyed liquids, and with a minimum pressure loss. The hose must not be used with fluorine gas or alkaline metals.



SPECIFICATIONS

Inner Bore: Smooth PTFE core hose

Reinforcement: stainless steel braid carbon charged is reinforced by a stainless steel braid 304L

Certification: Hose convenient for food contact and is compliant with the FDA 21 CFR 177 1550 regulation

Working temperature range: -50 °C to +200°C with peaks up 230°C

This hose can be used in explosive areas without any area restriction.

INERIS validation n° 87830-1/07



Product Number	Ø I.D		Ø ext.		Working Pressure		Burst Pressure		Bend Radius	
	Ins. diameter		Outs. Diameter							
	(mm.)	(in.)	(mm.)	(in.)	(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)
SFOS-B-0190	5.0	0.19	8.0	5/16	205	2973	820	11.893	50	1.97
SFOS-B-0250	6.5	0.25	9.5	3/8	205	2973	820	11.893	60	2.36
SFOS-B-0310	8.2	0.31	11.4	7/16	172	2495	690	10.008	100	3.94
SFOS-B-0380	10.0	0.38	13.2	1/2	138	2002	550	7.977	120	4.72
SFOS-B-0500	13.4	0.50	16.6	5/8	120	1740	480	6.962	135	5.31
SFOS-B-0630	16.0	0.63	20.0	3/4	102	1480	410	5.947	165	6.50
SFOS-B-0750	19.4	0.75	24.0	1	75	1088	300	4.351	190	7.48
SFOS-B-1000	26.0	1.00	29.0	1¼	68	986	270	3.916	250	9.84

Information given for ambient temperature (20°C)

PTFE Core Steel Braided Heavy Duty Easy Bend Flared Hose

Jack-Chem

Heavy Duty Easy Bend Flared Hose is ideal for applications where internal corrosion of the fittings and contamination of the chemical substrate is not tolerable. We can produce assemblies to your specific length and diameter needs to connect to your system. The entire wetted flow path is inert PTFE Fluoropolymer so you can have a long lasting transfer hose solution.



SPECIFICATIONS

Inner Bore: Heavy duty convoluted PTFE liner that is FDA compliant and chemically inert to a wide range of acids and caustics. The PTFE liner is made to last with a heavy wall construction that provides more hoop strength and resistance to kinking during flexing.

Reinforcement: One layer of type 304 stainless steel high tensile wire EN 1.4301 Type 316SS braid reinforcement available upon request. Three inch internal diameter also available with double braid for increased working pressure.

Applications: Chemical and Pharmaceutical

Temperature range: 54 °C to +260°C

Fittings: PTFE flare over stainless steel flange retainer with your choice of backing flange. Backing flanges can be provided to meet various standards. Typical flange alloys are carbon steel, 304 and 316 stainless steel.



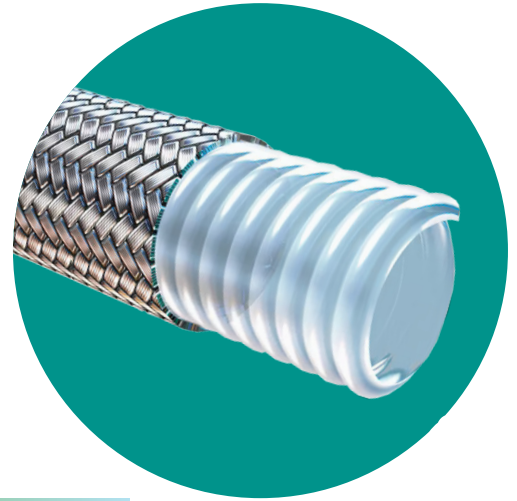
Size	Reference (in.)	Reference (in.)	I.D Ins. diameter (mm)	O.D. Outs. Diameter (mm)	Max Working Pressure (Bar)	Min Burst Pressure (Bar)	Min Bending Radius (mm)
-12	HDFI0.7N	HDFI0.7C	0.78	1.08	425	1700	3.0
-16	HDFI0.9N	HDFI0.9C	0.97	1.36	350	1400	4.0
-20	HDFI1.3N	HDFI1.3C	1.32	1.70	330	1350	5.5
-24	HDFI1.4N	HDFI1.4C	1.49	1.85	275	1100	7.0
-32	HDFI1.9N	HDFI1.9C	1.92	2.43	250	1000	8.5
-48	HDFI2.9N	HDFI2.9C	2.91	3.80	100	400	12.0
-48Z	HDFI2.9ND	HDFI2.9CD	2.91	4.00	250	1000	16.0
-64	HDFI3.9N	HDFI3.9C	3.92	4.95	100	400	18.0

Metric Reference	Metric Reference	I.D Ins. diameter (mm)	O.D. Outs. Diameter (mm)	Max Working Pressure (Bar)	Min Burst Pressure (Bar)	Min Bending Radius (mm)
HDFI20N	HDFI20C	20	27	29	117	76
HDFI25N	HDFI25C	25	35	24	97	102
HDFI34N	HDFI34C	34	43	23	93	140
HDFI38N	HDFI38C	38	47	19	76	178
HDFI49N	HDFI49C	49	62	17	69	216
HDFI74N	HDFI74C	74	97	7	28	305
HDFI74ND	HDFI74CD	74	102	17	69	406
HDFI100N	HDFI100C	100	126	7	28	457

PTFE Corrugated Core Steel Braided Hose

SFOS-WC

Used for applications that need a very good temperature holding, it has a high flexibility and is very resistant against solvents and other chemical agents.



SPECIFICATIONS

Inner Bore: PTFE corrugated hose

Outer surface: Reinforced by a stainless steel braid 304L

Reinforcement: Stainless steel braid 304L

Certification: Hose convenient for food contact and is compliant with the FDA 21 CFR 177 1550 regulation

Working temperature range: -50 °C to +200°C with peaks up 230°C

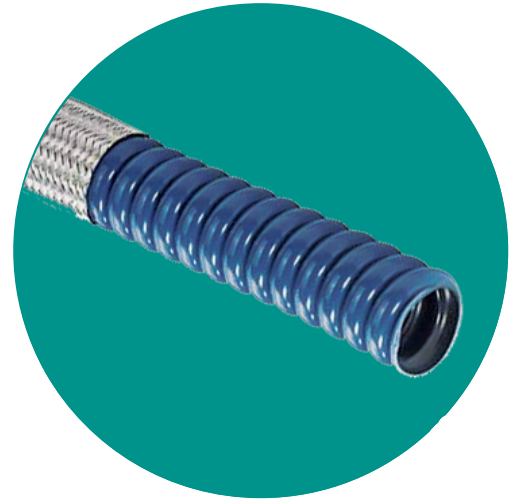


Product Number	ø I.D		ø ext.		Working Pressure		Burst Pressure		Bend Radius	
	Ins. diameter		Outs. Diameter		(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)
SFOS-WC-024	6.0	0.24	9.5	0.37	170	2466.7	510	7400	18	0.70
SFOS-WC-031	8.0	0.31	12.2	0.48	155	2249.0	465	6747	25	0.98
SFOS-WC-035	9.0	0.35	13.0	0.51	130	1886.0	410	5949	20	0.79
SFOS-WC-050	12.7	0.50	18.5	0.73	100	1451.0	310	4498	25	0.98
SFOS-WC-063	15.9	0.63	22.0	0.87	83	1204.0	248	3598	51	2.00
SFOS-WC-075	19.0	0.75	24.0	0.95	70	1015.0	207	3003	63	2.48
SFOS-WC-096	24.5	0.96	33.0	1.30	46	667.0	140	2031	89	3.50
SFOS-WC-116	29.5	1.16	40.5	1.59	34	493.0	100	1451	125	4.92
SFOS-WC-154	39.0	1.54	49.0	1.93	30	435.0	90	1305	150	5.90
SFOS-WC-197	50.0	1.97	60.0	2.36	23	333.0	69	1001	200	7.90
SFOS-WC-232	59.0	2.32	80.0	3.15	22	319.0	90	1305	225	8.90
SFOS-WC-295	75.0	2.95	95.0	3.74	20	290.0	80	1160	260	10.20
SFOS-WC-362	92.0	3.62	115.0	4.53	12	174.0	50	725	402	15.80

PTFE Corrugated Carbon-Charged Hose

SFOSBC

Used for applications that need a very good temperature holding, it has a high flexibility and is very resistant against solvents and other chemical agents.



SPECIFICATIONS

Inner Bore: The PTFE corrugated carbon-charged hose

Outer surface: Reinforced by a stainless steel braid 304L

Certification: Hose convenient for food contact and is compliant with the FDA 21 CFR 177 1550 regulation.

Working temperature range: -50 °C to +200°C with peaks up 230°C

This hose can be used in explosive areas without any area restriction.

INERIS validation n° 87830-1/07



Product Number	ø I.D.		ø O.D.		Working Pres. at 20°C		Burst Pres. at 20°C		Bend Radius	
	Ins. diameter (mm.)	(in.)	Outs. Diameter (mm.)	(in.)	(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)
SFOS-BC-024	6.0	0.24	9.5	0.37	170	2466.7	510	7400	18	0.70
SFOS-BC-031	8.0	0.31	12.2	0.48	155	2249.0	465	6747	25	0.98
SFOS-BC-035	9.0	0.35	13.0	0.51	130	1886.0	410	5949	20	0.79
SFOS-BC-050	12.7	0.50	18.5	0.73	100	1451.0	310	4498	25	0.98
SFOS-BC-063	15.9	0.63	22.0	0.87	83	1204.0	248	3598	51	2.00
SFOS-BC-075	19.0	0.75	24.0	0.95	70	1015.0	207	3003	63	2.48
SFOS-BC-096	24.5	0.96	33.0	1.30	46	667.0	140	2031	89	3.50
SFOS-BC-116	29.5	1.16	40.5	1.59	34	493.0	100	1451	125	4.92
SFOS-BC-154	39.0	1.54	49.0	1.93	30	435.0	90	1305	150	5.90
SFOS-BC-197	50.0	1.97	60.0	2.36	23	333.0	69	1001	200	7.90
SFOS-BC-232	59.0	2.32	80.0	3.15	22	319.0	90	1305	225	8.90
SFOS-BC-295	75.0	2.95	95.0	3.74	20	290.0	80	1160	260	10.20
SFOS-BC-362	92.0	3.62	115.0	4.53	12	174.0	50	725	402	15.80