



### Applications

Suitable for suction of all types of abrasive particles, such as: Sawdust, chips, granular products, salt, sugar and powder of all types, including cement.

### Properties

- Highly resistant to abrasion.
- High aging resistant, which means long useful life
- Excellent flexibility during the assembly process.
- Non-soluble to alcohol, water and ether.
- The hoses can be ordered with wire fitted parallel to the spiral wire, to improve static electricity discharge.
- The hose is translucent grooved inner and corrugated on its outer side.
- Operational temperature range from -18°C (-0.4 F) to +80°C (176 F), it may reach up to 100°C (212 F) during short periods of time.
- The standard manufacturing length between 5 (16.4 ft) to 25meters (82.02 ft).
- TECHNIPUR-VAC also could be supplied with food grade polyurethane.

### Limitations

Respect the work pressure established values.

The use of aromatic hydrocarbons, chlorine, hot water or steam may produce a slight swelling in the hose.

### Regulations

The polyurethane used is in accordance with EU Directive 2002/95/ECC for Restriction of the use of hazardous substances (RoHS).

### Construction

This tube is made of two overlapping sheets of polyurethane, half of one sheet overlapping half of the other and welded altogether, with white PVC covered steel wire sandwiched between both sheets.

The thickness in all the diameters is 1.20 mm (0.05 inch).

This branch of products could be supplied with the following options:

- AC: Copper wire fitted parallel to the coppered. Steel wire spring, to improve static electricity discharge.
- L: Made with food grade polyurethane.

### Technical Specifications

Inner diameter		Working pressure ISO 1402/2009		Burst pressure ISO 1402/2009		Vacuum resistance ISO 7233/2006		Bending radius ISO 1746/2000	
mm	inch	Bar at 20°C	Psi at 68°F	Bar at 20°C	Psi at 68°F	Bar at 20°C	Psi at 68°F	mm	inch
40	1.57	2.60	37.70	7.80	113.10	0.76	11.02	70	0.23
45	1.77	2.30	33.35	6.90	100.05	0.68	9.86	78	0.26
50	1.97	2.07	30.02	6.21	90.05	0.61	8.85	85	0.28
55	2.17	1.87	27.12	5.61	81.35	0.55	7.98	93	0.31
60	2.36	1.71	24.80	5.13	74.39	0.51	7.40	100	0.33
65	2.56	1.58	22.91	4.74	68.73	0.47	6.82	108	0.35
70	2.76	1.46	21.17	4.38	63.51	0.43	6.24	115	0.38
75	2.95	1.36	19.72	4.08	59.16	0.4	5.80	123	0.40

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80	3.15	1.28	18.56	3.84	55.68	0.38	5.51	130	0.43
85	3.35	1.20	17.40	3.60	52.20	0.36	5.22	138	0.45
90	3.54	1.13	16.39	3.39	49.16	0.34	4.93	145	0.48
95	3.74	1.07	15.52	3.21	46.55	0.32	4.64	153	0.50
100	3.94	1.01	14.65	3.03	43.94	0.3	4.35	160	0.52
105	4.13	0.96	13.92	2.88	41.76	0.29	4.21	168	0.55
110	4.33	0.92	13.34	2.76	40.02	0.27	3.92	175	0.57
115	4.53	0.88	12.76	2.64	38.28	0.26	3.77	183	0.60
120	4.72	0.84	12.18	2.52	36.54	0.25	3.63	190	0.62
125	4.92	0.81	11.75	2.43	35.24	0.24	3.48	198	0.65
130	5.12	0.77	11.17	2.31	33.50	0.23	3.34	205	0.67
135	5.31	0.75	10.88	2.25	32.63	0.22	3.19	213	0.70
140	5.51	0.72	10.44	2.16	31.32	0.22	3.19	220	0.72
145	5.71	0.69	10.01	2.07	30.02	0.21	3.05	228	0.75
150	5.91	0.67	9.72	2.01	29.15	0.2	2.90	235	0.77
155	6.10	0.65	9.43	1.95	28.28	0.19	2.76	243	0.80
160	6.30	0.63	9.14	1.89	27.41	0.19	2.76	250	0.82
165	6.50	0.61	8.85	1.83	26.54	0.18	2.61	258	0.85
170	6.69	0.59	8.56	1.77	25.67	0.18	2.61	265	0.87
175	6.89	0.57	8.27	1.71	24.80	0.17	2.47	273	0.90
180	7.09	0.55	7.98	1.65	23.93	0.17	2.47	280	0.92
185	7.28	0.54	7.83	1.62	23.49	0.16	2.32	288	0.94
190	7.48	0.52	7.54	1.56	22.62	0.16	2.32	295	0.97
195	7.68	0.51	7.40	1.53	22.19	0.15	2.18	303	0.99
200	7.87	0.50	7.25	1.50	21.75	0.15	2.18	310	1.02
205	8.07	0.49	7.11	1.47	21.32	0.15	2.18	318	1.04
210	8.27	0.47	6.82	1.41	20.45	0.14	2.03	325	1.07
215	8.46	0.46	6.67	1.38	20.01	0.14	2.03	333	1.09
220	8.66	0.45	6.53	1.35	19.58	0.14	2.03	340	1.12
225	8.86	0.44	6.38	1.32	19.14	0.13	1.89	348	1.14
230	9.06	0.43	6.24	1.29	18.71	0.13	1.89	355	1.16
235	9.25	0.42	6.09	1.26	18.27	0.13	1.89	363	1.19
240	9.45	0.41	5.95	1.23	17.84	0.13	1.89	370	1.21
245	9.65	0.40	5.80	1.20	17.40	0.12	1.74	378	1.24
250	9.84	0.40	5.80	1.20	17.40	0.12	1.74	385	1.26
255	10.04	0.39	5.66	1.17	16.97	0.12	1.74	393	1.29
260	10.24	0.38	5.51	1.14	16.53	0.12	1.74	400	1.31
265	10.43	0.37	5.37	1.11	16.10	0.11	1.60	408	1.34
270	10.63	0.37	5.37	1.11	16.10	0.11	1.60	415	1.36
275	10.83	0.36	5.22	1.08	15.66	0.11	1.60	423	1.39

Inner diameter		Working pressure ISO 1402/2009		Burst pressure ISO 1402/2009		Vacuum resistance ISO 7233/2006		Bending radius ISO 1746/2000	
<i>mm</i>	<i>inch</i>	<i>Bar at 20°C</i>	<i>Psi at 68°F</i>	<i>Bar at 20°C</i>	<i>Psi at 68°F</i>	<i>Bar at 20°C</i>	<i>Psi at 68°F</i>	<i>mm</i>	<i>inch</i>
280	11.02	0.35	5.08	1.05	15.23	0.11	1.60	430	1.41
285	11.22	0.35	5.08	1.05	15.23	0.11	1.60	438	1.44
290	11.42	0.34	4.93	1.02	14.79	0.1	1.45	445	1.46
295	11.61	0.33	4.79	0.99	14.36	0.1	1.45	453	1.49
300	11.81	0.33	4.79	0.99	14.36	0.1	1.45	460	1.51
305	12.01	0.32	4.64	0.96	13.92	0.1	1.45	468	1.54
310	12.20	0.32	4.64	0.96	13.92	0.1	1.45	475	1.56
315	12.40	0.31	4.50	0.93	13.49	0.1	1.45	483	1.58
320	12.60	0.31	4.50	0.93	13.49	0.09	1.31	490	1.61
325	12.80	0.30	4.35	0.90	13.05	0.09	1.31	498	1.63
330	12.99	0.30	4.35	0.90	13.05	0.09	1.31	505	1.66
335	13.19	0.29	4.21	0.87	12.62	0.09	1.31	513	1.68
340	13.39	0.29	4.21	0.87	12.62	0.09	1.31	520	1.71
345	13.58	0.28	4.06	0.84	12.18	0.09	1.31	528	1.73
350	13.78	0.28	4.06	0.84	12.18	0.09	1.31	535	1.75
355	13.98	0.28	4.06	0.84	12.18	0.08	1.16	543	1.78
360	14.17	0.27	3.92	0.81	11.75	0.08	1.16	550	1.80
365	14.37	0.27	3.92	0.81	11.75	0.08	1.16	558	1.83
370	14.57	0.26	3.77	0.78	11.31	0.08	1.16	565	1.85
375	14.76	0.26	3.77	0.78	11.31	0.08	1.16	573	1.88
380	14.96	0.26	3.77	0.78	11.31	0.08	1.16	580	1.90
385	15.16	0.25	3.63	0.75	10.88	0.08	1.16	588	1.93
390	15.35	0.25	3.63	0.75	10.88	0.08	1.16	595	1.95
395	15.55	0.25	3.63	0.75	10.88	0.08	1.16	603	1.98
400	15.75	0.24	3.48	0.72	10.44	0.07	1.02	610	2.00
410	16.14	0.24	3.48	0.72	10.44	0.07	1.02	625	2.05
420	16.54	0.23	3.34	0.69	10.01	0.07	1.02	640	2.10
430	16.93	0.23	3.34	0.69	10.01	0.07	1.02	655	2.15
440	17.32	0.22	3.19	0.66	9.57	0.07	1.02	670	2.20
450	17.72	0.22	3.19	0.66	9.57	0.07	1.02	685	2.25