

## Abrasion-resistant hoses



### P3 S PU / P3 S PU AE / P3 S PU AS

**Thick, extra-strong and internally smooth hose for extraction and transfer of abrasive materials**

**Hose material:** polyester - polyurethane (P3 S PU)  
polyether polyurethane (P3 S PU AE and AS) transparent, 2.0 mm thick

**Reinforcement:** dense steel wire spiral

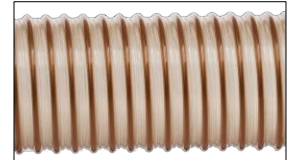
**Operating temp:** -40°C to +100°C

Very strong, thick, flexible hose designed for extraction and transfer of abrasive bulk materials: granules, grains, sand, gravel. Thick wall and very dense reinforcing spiral for high pressure and vacuum resistance. **Very smooth inside**, incompressible, not very flexible ( $r=4xD$ ), retains its flexibility even at low temperatures. Hose with good abrasion resistance, also resistant to oil and petrol. Hose wall thickness is measured between the helix. Assembly on couplings with bridge ties (right-handed) or special assembly on industrial end fittings, e.g. flanges. Other diameters may be available on special order. Versions:

P3 S PU - standard version, in **polyester-polyurethane**, highly abrasion-resistant;

P3 S PU AE - **polyether polyurethane** version, with **good** abrasion resistance, microbial and hydrolysis resistance; approved for food contact;

P3 S PU AS - antistatic version ( $R_s \leq 10^{(9)} \Omega$ ), complies with TRBS 2153 and for extraction also with TRGS 727, made of **polyether - polyurethane**, with **good** abrasion resistant, resistant to microbes and hydrolysis.



The P3 S PU AE hose complies with the European requirements 1935/2004/EC and 10/2011/EU (simulant E), 2023/2006/EC (GMP) and the US FDA 21 CFR 177.2600 and 178.2010. It is suitable for temporary food contact for the transfer of dry, free-flowing, non-fatty food substances - under the conditions specified in the manufacturer's declaration of conformity (available from Tubes International). For additional information on food and pharmaceutical applications, please see the section "Hoses for food products".

index (P3 S PU)	Index (P3 S PU AE)	index (P3 S PU AS)	internal diameter [mm]	working pressure 23°C [bar]	vacuum 23°C [bar]	bend radius [mm]	approximate mass [kg/m]	standard length [m]
SC-P3SPU-025	SC-P3SPUAE-025	SC-P3SPUAS-025	25	3	0,6	110	0,51	10
SC-P3SPU-030	SC-P3SPUAE-030	SC-P3SPUAS-030	30	2,80	0,57	130	0,61	10
SC-P3SPU-032	SC-P3SPUAE-032	SC-P3SPUAS-032	32	2,80	0,57	135	0,65	10
SC-P3SPU-035	SC-P3SPUAE-035	SC-P3SPUAS-035	35	2,80	0,57	140	0,72	10
SC-P3SPU-038	SC-P3SPUAE-038	SC-P3SPUAS-038	38	2,4	0,57	152	0,75	10
SC-P3SPU-040	SC-P3SPUAE-040	SC-P3SPUAS-040	40	2	0,57	160	0,79	10
SC-P3SPU-045	SC-P3SPUAE-045	SC-P3SPUAS-045	45	1,84	0,57	180	0,9	10
SC-P3SPU-050	SC-P3SPUAE-050	SC-P3SPUAS-050	50	1,92	0,54	200	1	10
SC-P3SPU-055	SC-P3SPUAE-055	SC-P3SPUAS-055	55	1,7	0,54	220	1,33	10
SC-P3SPU-060	SC-P3SPUAE-060	SC-P3SPUAS-060	60	1,6	0,54	240	1,45	10
SC-P3SPU-065	SC-P3SPUAE-065	SC-P3SPUAS-065	65	1,5	0,54	260	1,56	10
SC-P3SPU-070	SC-P3SPUAE-070	SC-P3SPUAS-070	70	1,44	0,54	280	1,68	10
SC-P3SPU-075	SC-P3SPUAE-075	SC-P3SPUAS-075	75	1,28	0,54	300	1,8	10
SC-P3SPU-076	SC-P3SPUAE-076	SC-P3SPUAS-076	76	1,26	0,54	304	1,82	10
SC-P3SPU-080	SC-P3SPUAE-080	SC-P3SPUAS-080	80	1,2	0,54	320	1,91	10
SC-P3SPU-085	SC-P3SPUAE-085	SC-P3SPUAS-085	85	1,15	0,52	340	2,03	10
SC-P3SPU-090	SC-P3SPUAE-090	SC-P3SPUAS-090	90	1,12	0,5	360	2,15	10
SC-P3SPU-100	SC-P3SPUAE-100	SC-P3SPUAS-100	100	1,04	0,5	400	2,38	10
SC-P3SPU-102	SC-P3SPUAE-102	SC-P3SPUAS-102	102	1	0,5	408	2,43	10
SC-P3SPU-105	SC-P3SPUAE-105	SC-P3SPUAS-105	105	0,98	0,5	420	2,5	10
SC-P3SPU-110	SC-P3SPUAE-110	SC-P3SPUAS-110	110	0,96	0,5	440	2,61	10
SC-P3SPU-120	SC-P3SPUAE-120	SC-P3SPUAS-120	120	0,88	0,5	480	2,72	10
SC-P3SPU-125	SC-P3SPUAE-125	SC-P3SPUAS-125	125	0,8	0,45	500	2,95	10
SC-P3SPU-127	SC-P3SPUAE-127	SC-P3SPUAS-127	127	0,76	0,45	508	2,97	10
SC-P3SPU-130	SC-P3SPUAE-130	SC-P3SPUAS-130	130	0,72	0,45	520	3,04	10
SC-P3SPU-140	SC-P3SPUAE-140	SC-P3SPUAS-140	140	0,64	0,45	560	3,27	10
SC-P3SPU-150	SC-P3SPUAE-150	SC-P3SPUAS-150	150	0,56	0,4	600	3,50	10
SC-P3SPU-160	SC-P3SPUAE-160	SC-P3SPUAS-160	160	0,4	0,35	640	3,72	10
SC-P3SPU-165	SC-P3SPUAE-165	SC-P3SPUAS-165	165	0,37	0,32	660	3,84	10
SC-P3SPU-175	SC-P3SPUAE-175	SC-P3SPUAS-175	175	0,32	0,25	700	4,06	10
SC-P3SPU-180	SC-P3SPUAE-180	SC-P3SPUAS-180	180	0,32	0,2	720	4,18	10
SC-P3SPU-200	SC-P3SPUAE-200	SC-P3SPUAS-200	200	0,32	0,15	800	4,05	10
SC-P3SPU-225	SC-P3SPUAE-225	SC-P3SPUAS-225	225	0,24	0,15	900	4,55	10
SC-P3SPU-250	SC-P3SPUAE-250	SC-P3SPUAS-250	250	0,24	0,1	1000	5,04	10
SC-P3SPU-280	§	§	280	0,2	0,07	1120	5,62	10
SC-P3SPU-300	SC-P3SPUAE-300	SC-P3SPUAS-300	300	0,16	0,05	1200	6,03	10

§ - available on special request