

Hoses with an inner layer of polyethylene (UPE) - for many aggressive chemicals



SUPERTOP LL UPE®

The proven suction and delivery hose for acids and alkalis

- Inner layer:** white cream polyethylene UPE
- Reinforcement:** synthetic cord, steel spiral
- Outer layer:** black EPDM rubber
- Operating temp:** -40°C to +100°C

A robust suction and delivery hose with an inner layer of chemically resistant ultra-high molecular weight polyethylene (UPE, UHMWPE). The inner layer is resistant to most acids and alkalis and many other aggressive chemicals (at elevated, but not very high temperatures), making the hose widely used in the chemical and petrochemical industries. The UPE inner layer also complies with the requirements for food hoses, is free of phthalates and polycyclic aromatic hydrocarbons (PAH), and has a low coefficient of friction during flow and prevents the medium from depositing on the walls. This makes cleaning considerably easier and also allows use in the cosmetic, pharmaceutical and food industries. Reinforced with synthetic cord and steel spiral, built-in copper lines for electrostatic dissipation. Outer layer of chemically resistant EPDM rubber, abrasion, ozone and weather resistant. Compliant with EN 12115:11 (type M, resistance between cable ends $R \leq 100 \Omega$, guaranteed for cable lengths of up to 40 m).

Cleaning (food industry):

hot water	steam	hydrogen peroxide		peracetic acid		phosphoric acid	chlorine	sodium hydroxide		nitric acid	
		1%	3%	0,1%	0,5%	5%	1%	2%	5%	0,1%	3%
90°C / 12 h	130°C / 30 min	max 80°C / 30 min	max 50°C / 30 min	max 70°C / 30 min	max 50°C / 30 min	max 80°C / 30 min	max 80°C / 30 min	max 80°C / 30 min	max 50°C / 30 min	max 80°C / 30 min	max 50°C / 30 min

Standards and requirements:

Chemical hoses: EN 12115:2011 Food industry, food contact (inner layer): 1935/2004/EC, 2023/2006/EC (GMP), 10/2011/EU (simulation fluids A, B, D2), FDA 21 CFR 177.1520, BfR III.



Verification of chemical resistance: UPE chemical resistance table (pre-selection), confirmation of resistance and conditions of use by Tubes International (especially for temperatures above 50°C).

Fitting: use spigot ("tail" to hose) ends that are smooth and do not have sharp or high notches that could cut or damage the UPE inner layer when clamped. The diameter of the spigot should be exactly matched to the diameter of the hose to ensure tightness. The copper lines should be correctly connected to the ferrules. Mount with collets or shell clamps.



index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure [bar]	Bursting pressure [bar]	vacuum [bar]	bend radius [mm]	mass [kg/m]	Roll length [m]
IV-SUPUPE-LL-019	19	31	6	16	64	0,9	90	0,74	60
IV-SUPUPE-LL-025	25	37	6	16	64	0,9	120	0,90	60
IV-SUPUPE-LL-032	32	44	6	16	64	0,9	150	1,09	60
IV-SUPUPE-LL-038	38	51	6,5	16	64	0,9	180	1,41	60
IV-SUPUPE-LL-051	51	65	7	16	64	0,9	250	1,86	60
IV-SUPUPE-LL-063	63,5	78	7,25	16	64	0,9	320	2,46	60
IV-SUPUPE-LL-076	76	91	7,5	16	64	0,8	400	3,02	60
IV-SUPUPE-LL-102	102	118	8	16	64	0,8	550	4,46	60

Note: Indexes highlighted in colour - most commonly used.