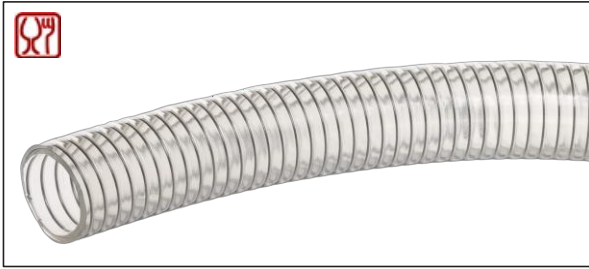


Polyurethane (PU) universal hoses



ARMORVIN TOTAL PU OIL TPHF

Polyurethane hose reinforced with thick steel spiral, for oily foodstuffs and universal use

Hose material: transparent polyurethane
Reinforcement: galvanised steel spiral
Operating temperature: -40°C to +90°C (temperature medium, temperature-dependent operating pressure)

Strong and flexible suction and delivery hose completely made of abrasion-resistant polyurethane with high resistance to fats and oils. **The hose is phthalate-free and can be used in the food industry for the transfer of liquid and dry food substances.** It includes:

- in particular fats and cooking oils, e.g. olive oil (simulant D2; up to +40°C and 30 min);
- milk and milk products, dairy drinks (simulant D1, up to +40°C and 30 min);
- hydrated, acidic, alcohol up to 20% and dry foods (simulants A, B, C, E; up to +70°C and 1 h);

In applications not involving direct food contact (industry, construction, agriculture), it can be used for water, light chemicals and other fat-based liquids and industrial oils (chemical resistance must be considered). Also used for air, vacuum transfer of dusts, powders, granulates and other abrasive bulk substances (abrasiveness and possible problem of static electricity must then be considered).

The ultra-smooth internal surface reduces transmission losses and ensures easy cleaning. The transparent wall allows visual inspection of the flow. Reinforcement with a **dense** steel wire **spiral** provides very good resistance to vacuum and hose kinking. The manufacture of the hose from polyurethane, compared to similar PVC hoses, results in significantly higher abrasion resistance, greater strength (working pressure and vacuum) and a greater temperature range with slightly less flexibility.



ARMORVIN TOTAL PU OIL TPHF hose complies with European requirements 1935/2004/EC, 1895/2005/EC and 10/2011/EU (simulants A, B, C, D1, D2, E), 2023/2006/EC (GMP) and US FDA 21 CFR 177.2600 (d). Suitable for temporary food contact for the transfer of food substances - under the conditions specified in the manufacturer's declaration of conformity (available from Tubes International). For additional information on food applications, see the section "Hoses for food products".



index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	Bursting pressure 20°C [bar]	20°C vacuum [bar]	bend radius [mm]	mass [kg/m]	Roll length [m]
ME-ARMTPU-OIL-020	20,5	28,5	4	7	21	0,9	80	0,41	30
ME-ARMTPU-OIL-025	25,3	33,5	4,1	7	21	0,9	100	0,52	30
ME-ARMTPU-OIL-030	30,4	39,2	4,4	7	21	0,9	120	0,62	30
ME-ARMTPU-OIL-032	32	41	4,5	6	18	0,8	130	0,69	30
ME-ARMTPU-OIL-040	40	49,4	4,7	6	18	0,8	160	0,90	30
ME-ARMTPU-OIL-050	51	60,4	4,7	6	18	0,8	200	1,16	30
ME-ARMTPU-OIL-060	60	70	5	6	18	0,8	240	1,44	30
ME-ARMTPU-OIL-070	70,4	80	4,8	5	15	0,8	300	1,65	30
ME-ARMTPU-OIL-075	75,4	85,2	4,9	5	15	0,7	320	1,73	30
ME-ARMTPU-OIL-080	80	90	5	4	12	0,7	340	1,80	30
ME-ARMTPU-OIL-100	100	114	7	3	9	0,7	400	3,25	20

Note: indexes highlighted in colour - most commonly used

Temperature dependence of burst pressure and working pressure for typical polyurethane (PU) hoses						
temperature	20°C	30°C	40°C	50°C	60°C	70°C
pressure	100%	84%	70%	60%	52%	46%



ARMORVIN TOTAL PU OIL TPHF hose DN25 assembled with a polypropylene IBC connector (AC-IBF060-H100) with S60x6 female thread for unloading palletised containers in Kazakhstan.