

Rubber chemical hoses (FKM / FPM) - for aggressive chemicals and hot oil

Fluoropolymer rubber (FKM, other designation - FPM, Viton® - Chemours' proprietary trade name) is characterised by very high chemical and temperature resistance, low gas and liquid permeability, exceptional resistance to atmospheric ageing and ozone. It can be used for very aggressive chemicals, in many cases also at elevated temperatures. It is more resistant than NBR rubber to fuels, oils, aromatic hydrocarbons and solvents. The use of relatively expensive FKM (viton) fluorocarbon rubber hose is advisable when a flexible and supple classic rubber hose, resistant to chemicals, temperature and durable, is required and hoses lined with polymeric materials (UPE, PTFE and others) cannot be used.



REAL®

Delivery hose for aggressive chemicals, hot fuels and oils

Inner layer: black FKM rubber (FPM, viton)

Reinforcement: synthetic cord

Outer layer: black CR rubber

Operating temp: -25°C to +100°C

Delivery hose for the transfer of almost all aggressive chemicals. Specially designed for the petrochemical industry for fuels with high concentrations of aromatic hydrocarbons, hot oil and solvents. Due to the high overall chemical resistance of the FPM rubber, it can be used for aggressive chemicals, in many cases also at elevated temperatures. Inner layer of smooth black FKM fluoro rubber. Reinforced with synthetic cord. Outer layer in CR chloroprene rubber resistant to weather, ozone, abrasion and oils.

Chemical resistance check: FPM / FKM chemical resistance table (pre-selection), confirmation of resistance and application conditions by Tubes International (especially for temperatures above 50°C).

index	inside diameter [mm]	Outside diameter [mm]	wall thickness [mm]	working pressure [bar]	Bursting pressure [bar]	mass [kg/m]	Roll length [m]
IV-REAL-019	19	31	6	10	40	0,69	60 / 120
IV-REAL-025	25	38	6,5	10	40	0,90	60 / 120
IV-REAL-032	32	46	7	10	40	1,22	60 / 120
IV-REAL-038	38	54	8	10	40	1,66	60 / 120
IV-REAL-051	51	68,5	8,75	10	40	2,22	60 / 120
IV-REAL-063	63,5	81	8,75	10	40	2,69	60 / 120
IV-REAL-076	76	95	9,5	10	40	3,53	60 / 120
IV-REAL-102	102	121	9,5	10	40	4,61	60 / 120



PROVIDENCE®

Suction and delivery hose for aggressive chemicals, hot fuels and oils

Inner layer: black FKM rubber (FPM, viton)

Reinforcement: synthetic cord, steel spiral

Outer layer: black CR rubber

Operating temp: -25°C to +100°C

Suction and delivery hose for the transfer of almost all aggressive chemicals. Specially designed for the petrochemical industry for fuels with high concentrations of aromatic hydrocarbons, hot oil and solvents. Due to the high overall chemical resistance of FKM rubber, it can be used for aggressive chemicals, in many cases also at elevated temperatures. Used for handling chemicals from road and rail tankers. Inner layer of smooth black FKM fluoro rubber. Reinforced with synthetic cord and steel spiral. Outer layer in CR chloroprene rubber, anti-static, weatherproof, ozone, abrasion and oil resistant. Incorporated two copper cables for static charge dissipation. Compliant with EN 12115:11 (type M).

Chemical resistance check: FPM / FKM chemical resistance table (pre-selection), confirmation of resistance and application conditions by Tubes International (especially for temperatures above 50°C).

index	internal diameter [mm]	wall thickness [mm]	external diameter [mm]	working pressure [bar]	Bursting pressure [bar]	vacuum [bar]	bend radius [mm]	mass [kg/m]	Roll length [m]
IV-PROV-019	19	7	33	16	64	0,9	95	0,92	60 / 120
IV-PROV-025	25	7	39	16	64	0,9	125	1,15	60 / 120
IV-PROV-032	32	7,25	46,5	16	64	0,9	160	1,49	60 / 120
IV-PROV-038	38	8	54	16	64	0,9	190	1,86	60 / 120
IV-PROV-051	51	7,75	66,5	16	64	0,9	255	2,34	60 / 120
IV-PROV-063	63,5	8,5	80,5	16	64	0,9	318	3,15	60 / 120
IV-PROV-076	76	9	94	16	64	0,9	380	4,00	60 / 120
IV-PROV-102	102	12,5	127	16	64	0,9	510	7,14	60

Note: Indexes highlighted in colour - most commonly used.