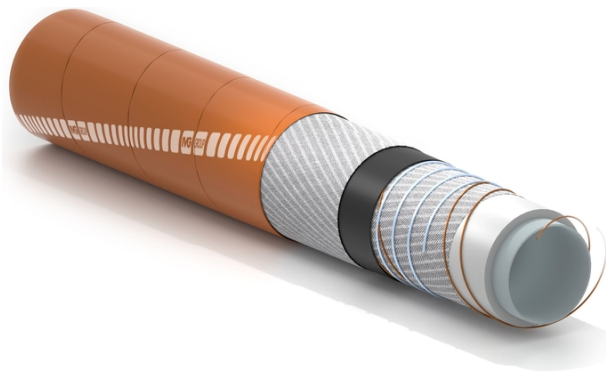


Teflex

Hose for chemicals and solvents, FEP tube



Application:

hardwall hose with FEP tube (polymer of tetrafluoroethylene and hexafluoropropylene), suitable to convey almost all chemical products, as found in the IVG chemical resistance chart. Designed to be sterilized at 150°C (+302°F) with standard CIP.

Exceptional thermal quality
 FEP tube
 Suitable for a wide range of chemicals

Specifications:

EN 12115:2021. Phthalates free (REACH Reg.).
 Tube USP class VI. FDA tit. 21 it. 177.1550 for foods.



Tube:

FEP clear, specular, particularly smooth, food quality and with exceptional thermal quality. Chemical resistance according to IVG chemical resistance chart. For temperature exceeding 50°C contact IVG.

Reinforcement:

high strength synthetic cord, steel helix wire and antistatic copper wire.

Cover:

orange, smooth (wrapped finish), EPDM rubber, resistant to chemicals, abrasion, ozone and weathering.

Temperature:

-40°C (-40°F) +150°C (+302°F) depending on medium.

Electrical resistance:

type M.

Branding:

continuous white/blue/green stripe "IVG Chem (Family logo)...". Embossed acc. to EN 12115.



Teflex



Code	Inside diameter		Outside diameter		Working pressure		Burst pressure		Weight nominal		Bending radius		Vacuum	Length max	
	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lbs/ft	mm	inch	bar	m	ft
1457080	19	3/4	31,5	1,24	16	240	64	960	0,7	0,47	90	3,5	0,9	40	131
1441426	25	1	37,5	1,48	16	240	64	960	0,97	0,65	120	4,7	0,9	40	131
1452924	32	1-1/4	45	1,77	16	240	64	960	1,19	0,80	150	5,9	0,9	40	131
1440195	38	1-1/2	51,5	2,03	16	240	64	960	1,39	0,96	180	7,1	0,9	40	131
1443534	51	2	65,5	2,58	16	240	64	960	2,04	1,37	250	9,9	0,9	40	131
1486535	63,5	2-1/2	78,5	3,09	16	240	64	960	2,59	1,73	320	12,6	0,9	40	131
1499084	76	3	91	3,58	16	240	64	960	3,16	2,12	400	15,7	0,9	40	131

Recommended Couplings:



Camlock



Clamp



Thread coupling EN 14420-5 (DIN 2817)

SPECIAL DETAILS

SAFETY INSTRUCTIONS FOR HOSES INTENDED FOR CHEMICAL APPLICATIONS

INTRODUCTION

The chemical resistance of a hose is closely related to the medium conveyed and to the conditions of use. In particular, remember to check the chemical resistance of the elastomer that constitutes the inner tube in the table found on the IVG website (<https://www.ivgspa.it/en/chemical-resistance.aspx>).

The useful life of the product is seriously influenced by the conditions of use such as temperature and pressure, as well as delivery speed, abrasion, frequency, and duration of use. The age of the hose and the degree of impurities of the transported chemical product are also determining factors.

USE

Particular care must be taken to ensure that the cover and ends of the hose don't come into contact with the chemicals and/or elements that may damage the integrity of the hose.

All operators involved in the use and maintenance of the hose and its fittings must be adequately trained on the proper use of chemicals. They must also wear appropriate protective clothing and devices.

A system failure could cause the release of toxic, corrosive and/or flammable material.

If you use chemical products or mixtures that differ from what is listed in the IVG chemical resistance chart please contact IVG before use. You are also advised to contact IVG if the nature or composition of the product to be conveyed, for example concentration or temperature, do not correspond to indications given by IVG. www.ivgspa.it/resistenze-chimiche.aspx

FITTINGS

We recommend using fittings in materials suitable for the conveyed product. Pay particular attention to the combination between different materials if their contact can produce galvanic corrosion (e.g. aluminum - brass). Any small variation in concentration or temperature of the conveyed product can determine an important reduction of the mechanical characteristics of the metallic fitting. In case of doubts about the choice of the appropriate fitting please contact IVG Colbachini (<https://www.ivgspa.it/en/contacts.aspx>).

INSPECTION AND MAINTENANCE

Even if the use of the product complies with all the prescriptions reported in this document and in the attached sheets, all the materials used for the hose production suffer a natural aging with subsequent loss of the chemical-physical-mechanical characteristics. Hoses and fittings must be carefully inspected preferably before each use and in any case with a periodic frequency not exceeding 6-12 months. This will help prevent possible leakage of polluting substances, dangerous for the health of man and the environment.

It is important during these periodic checks to pay attention to the state of the hose and fittings. Any anomalies that are detected indicate a degraded state of the hose and determine its removal from service.

Main anomalies detectable on hoses:

- cracks, cuts, abrasions, detachments, tears of the cover with damaged or uncovered areas of reinforcement
- deformations, bubbles, specific swelling under pressure
- sticky or soft areas
- leaks

Main anomalies detectable on fittings:

- cracks or signs of corrosion on the metal parts
- worn gaskets
- sliding of the fitting on the hose
- leaks

Avoid stagnation of products in the hose, especially in the case of solutions or emulsions. The resulting decanting causes concentrations to exceed the allowed limits. To avoid this phenomenon, proceed with emptying and cleaning after each use where possible.

SPECIAL DETAILS

WARNINGS AND PRECAUTIONS

Rubber hoses have a service life proportional to their usage.

The equipment and systems where the hose is installed must be designed to ensure safe operation. Given the wide range of possible applications, IVG Colbachini does not guarantee suitability for all specific uses. The selection of the most appropriate product for the intended application, ensuring the required performance and safety standards, is the sole responsibility of the user.

IVG Colbachini shall therefore not be held liable for any use other than those indicated in its catalogues, product data sheets, quotations, order confirmations, or any accompanying recommendations.

Improper product selection and/or use, or failure to comply with installation, operation, maintenance, and storage procedures, may result in hose failure and cause damage to property or personal injury.

IVG Colbachini manufactures and markets both assembled hoses and hoses supplied without fittings.

Assembled Hoses

Before being placed on the market, the hose assembly is subjected by IVG to manufacturing control tests carried out by qualified personnel.

IVG declines all responsibility for any subsequent modifications, disassembly, or reinstallation of fittings performed by the user, as well as for uses that differ from those indicated in the product data sheet or in the absence of maintenance programs and periodic inspections.

Hoses and Fittings as spare parts

The user is responsible for assembling the hose and fittings, ensuring proper hose/fitting compatibility and compliance with the technical specifications for use. It is recommended that the hose assembly be subjected to a pressure tightness test carried out by qualified personnel.

IVG declines all responsibility in this regard.

Precautions

For proper selection and correct use of IVG products, reference should also be made to the recommendations issued by Assogomma, available at www.ivgspa.it, in accordance with ISO 8331 regarding installation, maintenance, methods and duration of use, as well as fitting stability and tightness.

For safety reasons, the working pressure indicated in the product technical data sheet must never be exceeded.

In general, continuous operation at maximum allowable pressure and/or temperature may significantly reduce the hose service life. Regular inspections and hydrostatic testing at the specified test pressure must therefore be carried out. Hydrostatic tests must be performed by adequately trained personnel using suitable equipment and in accordance with recognized testing standards.

For specific applications of rubber hoses, reference should be made to applicable legal requirements or compliance standards. Additional recommendations are available for particularly critical applications. For further information, please contact info@ivgspa.it.