



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
1466216	13	1/2	25	0,99	16	240	64	960	0,52	0,35	60	2,4	0,9	60	200
1476823	16	5/8	28	1,10	16	240	64	960	0,60	0,40	75	3,0	0,9	60	200
1463063	19	2/4	31	1,22	16	240	64	960	0,68	0,46	90	3,5	0,9	60	200
1451847	25	1	38	1,50	16	240	64	960	0,92	0,62	120	4,7	0,9	60	200
1456156	32	1-1/4	44	1,73	16	240	64	960	1,01	0,68	150	5,9	0,9	60	200
1463071	38	1-1/2	51	2,01	16	240	64	960	1,30	0,87	180	7,1	0,9	60	200
1465171	40	1-3/8	53	2,09	16	240	64	960	1,39	0,93	180	7,1	0,9	60	200
1456148	51	2	65	2,56	16	240	64	960	1,77	1,19	250	9,9	0,9	60	200
1464981	63,5	2-1/2	78	3,07	16	240	64	960	2,37	1,59	320	12,6	0,9	60	200
1466232	76	3	91	3,59	16	240	64	960	2,88	1,93	400	15,8	0,9	60	200
1476343	100	3-15/16	116	4,57	16	240	64	960	4,25	2,86	550	21,7	0,9	60	200



EN

Conductive hose for chemicals, food, petroleum, PE-UHMW tube

Standards: EN 12115:11. Tube: Reg. EC 1935/04 and EC 2023/06. Reg. EU 10/2011 for alcoholic foods up to 96%. Phthalates free. Bisphenol A free. FDA title 21 item 177.1520 foods. BfR III.

Application: hardwall smooth hose to convey a wide range of chemicals, food, petroleum products and oils.

Temperature: -30°C(-22°F) +100°C(212°F) depending on medium.

Construction

Tube: black and white speckled, smooth, food quality PE-UHMW. Chemical resistance according to IVG chemical resistance chart. For temperature exceeding 50°C contact IVG.

Reinforcement: high strength synthetic cord plus steel helix wire.

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

Electrical Resistance: Ω/T, electrically conductive hose, $1 \times 10^3 \Omega \leq R \leq 1 \times 10^6 \Omega/\text{lgth}$. Electrical resistance guaranteed for lengths equal or lower than 40m. The hose can be used in ATEX areas.

Branding: continuous blue/white stripe "IVG Chem THUNDERFLEX...". Embossed according to EN 12115.

RU

Токопроводящий рукав для химикатов, нефтепродуктов и продуктов питания, внутренний слой из PE-UHMW

Нормативы: EN 12115:11. внутр.слой Рег. СЕ 1935/04 и СЕ 2023/06. Рег. EU 10/2011 пищевых с содержанием алкоголя до 96%. Без фталатов. Без бисфенола А. FDA П.21 177.1520 для пищевых., BfR III.

Применение: напорно-всасывающий токопроводящий рукав для широкого ряда агрессивных химических веществ, пищевых продуктов, нефтепродуктов и масел. Испытан и одобрен INERIS для использования в потенциально взрывоопасных зонах ATEX.

Температура: от -30°C до +100°C зависит от подаваемой жидкости.

Конструкция

Внутренний слой: из чёрно/белого высокомолекулярного полиэтилена (PE-UHMW).Хим. стойкость соответствует таблице IVG. Если температура подаваемого материала выше 50°C - просим проконсультироваться с IVG.

Усиление: высокопрочный синтетический корд, встроенная стальная спираль.

Покрывтие: чёрное, гладкое из синтетического каучука EPDM (с отпечатком текстильного бандажа), устойчивое к химическим продуктам, истиранию, атмосферным воздействиям и озону.

Электрическое сопротивление: Ω/T, токопроводящий рукав $1 \times 10^3 \Omega \leq R \leq 1 \times 10^6 \Omega/\text{lgth}$. Электрическое сопротивление для отрезков длиной менее или равным 40м. Может быть использован в потенциально взрывоопасной среде ATEX.

Маркировка: сине/белая маркировочная лента "IVG Chem THUNDERFLEX...". Тиснение в соответствии EN 12115.



Advice to users
on hoses in contact with food

www.ivgspa.it

» Clean In Place information

- IVG recommends for the first use a wash cycle with potable water at a maximum temperature of 80°C/90°C and a hose sanitation as reported above before conveying food products.
- At the end of each cycle the equipment and hose assemblies must be cleaned and disinfected.
- Strictly follow the times indicated for each cleaning cycle.
- Do not immerse hose assembly in the sanitation fluid because only the inner tube is suitable for contact with the below mentioned solvents.
- Every cleaning cycle must be immediately followed by a complete rinse.
- Do not exceed 3 bar working pressure in CIP systems.

HOSE*	Hot Water	Steam open end	H202 1%	H202 3%	Peracetic Acid 0.1%
FOOD SCOTLAND FOOD VINOFLEX FOOD TUSCANY FOOD PIEDMONT FOOD CANA TRUCK FOODFLEX®/IIR OFFSHORE PL POTABLE	90°C 8 hours	Max 130°C 30 minutes	Max 70°C 15 minutes	Max 30°C 15 minutes	Max 50°C 15 minutes
FOOD MILLENNIUM FOOD DAMASCO	80°C 8 hours	Max 110°C 15 minutes	Max 50°C 10 minutes	Max 30°C 10 minutes	Max 30°C 10 minutes
TRUCK FOODFLEX® FOOD MERLOT FOOD PARRY	80°C 8 hours	Max 110°C 15 minutes	Max 50°C 10 minutes	Max 30°C 10 minutes	Max 30°C 10 minutes
FOOD ALICANTE FOOD MILKSERVICE FOOD SUPERJUICE	90°C 8 hours	Max 130°C 30 minutes	Max 70°C 15 minutes	Max 30°C 15 minutes	Max 50°C 15 minutes
FOOD PANAMA FOOD ACAPULCO FOOD OILMILL	80°C 8 hours	Max 110 °C 10 minutes	Max 50 °C 10 minutes	Max 30 °C 10 minutes	Max 30 °C 10 minutes
FOOD ACQUABLU®	80°C 8 hours	Max 110 °C 30 minutes	Max 80°C 30 minutes	Max 50°C 30 minutes	Max 70°C 30 minutes
FOOD SHETLAND CHEM THUNDERFLEX CHEM SUPERTOP UPE	90°C 12 hours	Max 130°C 30 minutes	Max 80°C 30 minutes	Max 50°C 30 minutes	Max 70°C 30 minutes
TRUCK DON/BN TRUCK GORDON	80°C 8 hours	Max 110°C 15 minutes	Max 50°C 10 minutes	Max 30°C 10 minutes	Max 30°C 10 minutes

* The indications regarding hoses on this list refer to the product code found in the IVG catalogue www.ivgspa.it.

» Clean In Place information

- Al primo utilizzo, IVG raccomanda di effettuare un ciclo di lavaggio con acqua potabile alla temperatura di 80°C/90°C e una sanificazione della manichetta prima di convogliare i prodotti alimentari.
- Al termine di ogni ciclo di utilizzo deve essere effettuata la detersione e la disinfezione delle manichette.
- Il rispetto dei tempi è fondamentale per ogni ciclo di lavaggio.
- Non immergere la manichetta nel liquido di sanificazione poiché solo il sottostrato è idoneo al contatto con i solventi indicati.
- Ogni ciclo di lavaggio deve essere immediatamente seguito da un risciacquo completo.
- Non utilizzare sistemi CIP oltre 3 bar di pressione.

Peracetic Acid 0.5%	Phosphoric Acid 5%	Chlorine 1%	NaOH 2%	NaOH 5%	Nitric Acid 0.1%	Nitric Acid 3%
Max 30°C 15 minutes	Max 80°C 15 minutes	Max 80°C 15 minutes	Max 80°C 15 minutes	Max 30°C 15 minutes	Max 70°C 15 minutes	Max 30°C 15 minutes
Max 30°C 10 minutes	Max 50°C 15 minutes	Max 70°C 15 minutes	Max 70°C 10 minutes	Max 30°C 10 minutes	Max 50°C 10 minutes	Max 30°C 10 minutes
Max 30°C 10 minutes	Max 50°C 15 minutes	Max 70°C 15 minutes	Max 70°C 10 minutes	Max 30°C 10 minutes	Max 50°C 10 minutes	Max 30°C 10 minutes
Max 30°C 15 minutes	Max 80°C 15 minutes	Max 80°C 15 minutes	Max 80°C 15 minutes	Max 30°C 15 minutes	Max 70°C 15 minutes	Max 30°C 15 minutes
Max 30 °C 10 minutes	Max 50 °C 10 minutes	Max 70 °C 10 minutes	Max 70 °C 10 minutes	Max 30 °C 10 minutes	Max 50 °C 10 minutes	Max 30 °C 10 minutes
Max 50°C 30 minutes	Max 80°C 30 minutes	Max 80°C 30 minutes	Max 80°C 30 minutes	Max 50°C 30 minutes	Max 80°C 30 minutes	Max 50°C 30 minutes
Max 50°C 30 minutes	Max 80°C 30 minutes	Max 80°C 30 minutes	Max 80°C 30 minutes	Max 50°C 30 minutes	Max 80°C 30 minutes	Max 50°C 30 minutes
Max 30°C 10 minutes	Max 50°C 15 minutes	Max 70°C 15 minutes	Max 70°C 15 minutes	Max 30°C 10 minutes	Max 50°C 10 minutes	Max 30°C 10 minutes

* Le indicazioni riguardanti i tubi di questa lista fanno riferimento ai codici prodotto presenti nel catalogo IVG www.ivgspa.it.



General Advice

- Hoses are not meant to permanently contain the products they convey.
 - Store hoses away from direct sunlight and heat. When not in use store hoses with perforated plugs at both ends.
 - Before every use check the hose condition. The hose cover, especially in the fitting area, should show no signs of cuts, tears, or bubbles. There should be no hard or weak areas, signs of detachment or collapse.
 - Remember to guarantee traceability of every single piece of hose put into the market (CE 1935/2004, CE 2023/2006)
-
- I tubi non sono idonei alla stagnazione permanente dei prodotti.
 - Stocca al riparo dalla luce e dal calore, con tappi forati alle estremità.
 - Verifica sempre le buone condizioni del tubo prima di ogni utilizzo (nessuna rottura, taglio, rigonfiamento, area irrigidita a molle, distacco, collasso) specialmente nell'area dei raccordi.
 - Ricorda di garantire la rintracciabilità di ogni singola pezzatura di tubo immessa nel mercato (CE 1935/2004, CE 2023/2006).



Scan this code to receive further information and regularly updated indications.

Otherwise consult the technical product sheets on

www.ivgspa.it



Effettua la scansione del codice per avere ulteriori informazioni e indicazioni regolarmente aggiornate.

Oppure consulta le schede tecniche prodotto su

www.ivgspa.it

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/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.

SAFETY INFORMATION – USER RESPONSIBILITIES

The service life of rubber hoses mainly depends on the dedicated use. Equipment and systems where the hose is installed must be designed safely. Since our hose can be designed for different applications, IVG Colbachini SpA cannot guarantee the proper functioning of the product for all situations. The analysis of the technical aspects related to specific uses must be performed by the users when choosing the product that meets their requirements. So, in relation to the variety of operating conditions and applications of the IVG hose, the user is solely responsible for the final choice of the product deemed suitable to satisfy the performance and safety requirements called for the application.

The information and technical data shown in the product data sheets must be examined by users with appropriate technical skills.

IVG Colbachini is not responsible for other uses, identified by the end user, that are different from the one shown in its catalogues, product sheets, offers, order confirmations and any recommendations attached.

An inappropriate choice of the product or a failure to follow the procedures of installation, use, maintenance and storage of the hoses may lead to a hose break and cause material damage and/or serious injury to people.

For the selection and proper use of the IVG products you can also refer to the document "Recommendations for selection, storage, use and maintenance of rubber hoses" provided by Assogomma and available on www.ivgspa.it. These recommendations are according to the international standard ISO 8331, "Plastic and rubber hoses and hose assemblies - Guidelines for selection, storage, use and maintenance."

For safety reasons, never exceed the working pressure indicated in the product data sheet.

For specific applications of rubber hoses, please refer to the legal requirements or specific standards; moreover additional recommendations for particularly critical applications are available.

For further information, contact the Marketing department (marketing@ivgspa.it).