

Armorvin HNA



Plasticized PVC hose with embedded galvanised steel spiral, for suction and delivery of liquids and liquid food stuffs.



SMOOTH SURFACE



FLEXIBILITY



ABRASION RESISTANCE



TEMPERATURE RANGE

-20°C / 90°C



CHEMICAL RESISTANCE

PU Table



CRUSHING RESISTANCE



FOR FOOD

**EU ACCORDING TO DECLARATION OF CONFORMITY. FDA
ACCORDING TO DECLARATION OF CONFORMITY**

O-PHTHALATE FREE



Ø nominal mm	Ø nominal inch	Ø i.d. mm	Ø o.d. mm	vacuum 23 °C m/H ₂ O	working press. at 23 °C r.1:3 bar	bursting press. at 23 °C bar	bending radius mm	Ø steel wire mm	spiral pitch mm	spiral direction	weight meter g/m	coil length m	Part no.
10	3/8	10	16	8.5	7	21	20	0.8	6.5	right	155	60	CZPAR010
12		12	18	8.5	7	21	25	0.8	7	right	180	60	CZPAR012
14		14	20	8.5	6	18	30	0.8	7.5	right	200	60	CZPAR014
16	5/8	16	22	8.5	6	18	35	0.8	7.5	right	225	60	CZPAR016
18		18	24.5	8.5	6	18	40	1	8	right	280	60	CZPAR018
19	3/4	19	26	8.5	5	15	45	1	8	right	310	60	CZPAR019
20		20	27	8.5	5	15	50	1	8	right	340	60	CZPAR020
22	7/8	22	29	8.5	5	15	55	1	8.5	right	360	60	CZPAR022
25	1	25	33.5	8.5	5	15	60	1.4	13.5	right	510	60	CZPAR025
30		30	39	8.5	4.5	13.5	70	1.4	13.5	right	600	60	CZPAR030
32	1 1/4	32	41	8.5	4.5	13.5	75	1.4	13.5	right	650	60	CZPAR032
35		35	44	8.5	4	12	80	1.4	14.5	right	730	60	CZPAR035
38	1 1/2	38	47	8.5	4	12	90	1.6	15	right	800	30	CZPAR038
40		40	49.5	8.5	3	9	95	1.6	15	right	870	30	CZPAR040
45	1 3/4	45	55	8	3	9	110	1.8	15	right	1100	30	CZPAR045

Ø nominal mm	Ø nominal inch	Ø i.d. mm	Ø o.d. mm	vacuum 23 °C m/H ₂ O	working press. at 23 °C r.1:3 bar	bursting press. at 23 °C bar	bending radius mm	Ø steel wire mm	spiral pitch mm	spiral direction	weight meter g/m	coil length m	Part no.
50	2	50	60	8	3	9	125	1.8	16	right	1200	30	CZPAR050
55		55	66	8	3	9	130	1.8	16.5	right	1380	30	CZPAR055*
60		60	72	8	2.5	7.5	140	2.5	20	right	1800	30	CZPAR060
63	2 1/2	63	75	8	2.5	7.5	150	2.5	20	right	1880	30	CZPAR063
70		70	83	8	2	6	170	2.5	20	right	2200	30	CZPAR070*
75		75	89	7	2	6	200	2.5	20	right	2500	30	CZPAR075
80		80	94	7	2	6	220	2.5	20	right	2700	30	CZPAR080
90	3 1/2	90	104	7	2	6	260	2.5	20	right	2900	30	CZPAR090
100		100	114	7	2	6	300	2.5	19	right	3250	30	CZPAR100

*** On demand**

All technical specifications apply to a temperature of 23° C ± 2° C (ISO 291)

All technical specifications contained herein are provided for reference purposes only.

For further details regarding our products' specifications, please refer to the relevant products' data sheets or contact your sales representative.



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DECLARATION OF CONFORMITY

Hereby, in reference to the hoses

913040.....00 ARMORVIN HNA

We declare that:

- the additives added in the formulation of the plasticized PVC mixture, which constitute the hoses of the object are, at the latest modification, among those indicated by the FDA sub part 21 CFR, for the production of articles intended to come into contact with food:

I, II, IV-B, VI-A, VI-B, VI-C (up to 15% alcohol by volume), VII-B, and VIII described in 176.170 (c) of section 177.1210 table 1, and under conditions of use A through H as described in 176.170 (c) of section 177.1210, table 2.

- The PVC resin indicate nel FDA CFR part 21 Sec. 170.3 (I) "Prior sanction"

The hoses are devices suitable for the passage of fluids and therefore should not be used for food storage. Avoid contact of food with the heads and outer surface of the hoses. The hoses must be sterilised prior to use by the end user.

The items mentioned above were manufactured exclusively with substances (monomers, pigments and additives) indicated in the positive lists of the above legislation.

The declaration refers only to the suitability for contact with foodstuffs with the a.m. restrictions.

This declaration will be updated in the event of changes in formulation of the material or if the legislative references are modified and updated so as to require a new check for compliance.

Daverio, 21.06.2022

Amministratore Delegato / CEO

Alessandro CERUTTI



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DECLARATION OF CONFORMITY

We hereby declare that the hoses

913040.....01 ARMORVIN HNA NERO

are suitable for contact with aqueous food, acid and alcohol (up to 20%) for which A, B and C simulants are provided, for a maximum of 1 hours repeated contact at the maximum temperature of 40°C.

The hoses are devices suitable for the passage of fluids and therefore should not be used for food storage. Avoid contact of food with the heads and outer surface of the tube. The hoses must be sterilized prior to use.

The products are made on plasticized black PVC reinforced with a galvanized steel spiral.

In compliance

with the following EU legislation:

Directive 1978/142/ EEC;
Regulation 1935/2004/EC;
Regulation 1895/2005/EC (epoxy derivatives);
Regulation 2023/2006/EC (GMP);
Regulation 10/2011/EC and sub. amend.

and the following Italian legislation:

Ministerial Decree 21/03/1973 and subsequent amendments and changes;
Presidential Decree 777/1982 and subsequent amendments and changes.

The items mentioned above were manufactured exclusively with substances (monomers, pigments and additives) indicated in the positive lists of the above legislation. The material contains substances subject to restrictions in the laws mentioned and are listed below:

NAME	Ref. No	CAS No.	SML (mg/kg)
Vinyl Chloride	26050	75-01-4	0.01
octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)Propionate	68320	2082-79-3	6
phthalic acid, diesters with primary, saturated C 8-C 10 branched alcohols, more than 60 % C 9	75100	68515-48-0 28553-12-0	9
polyester of adipic acid with glycerol or penta erythritol, esters with even numbered, unbranched C12-C22 fatty acids	76815	---	60
Soybean Oil, Epoxidised	88640	8013-07-8	60
Zinc Salts	---	---	5

(*) Annex II reg. UE 10/2011.

Test conditions (specific migrations):

Simulant B: acetic acid at 3% in aqueous solution

Time and Temperature: 1 hours at 40°C (repeated use)

Simulant C: ethanol at 20% in aqueous solution

Time and Temperature: 1 hours at 40°C (repeated use)

The simulants and test conditions were chosen according to Regulation (EU) n. 10/2011 (annex III tab. 1 and annex V tab.3)

The test of global migration for the simulant is made in compliance with annex V tab 3 test OM3 (2h a 70°C).

The analytical tests were conducted in accordance with Regulation 1935/2004/EC, Regulation 10/2011/EU and Italian Ministerial Decree (D.M.) 21/03/1973 on the simulant coming from contact with a representative sample in modality "Article Filling" with maximum contact surface / volume ratio of 2,86 (dm²/dl) (simulant B, C) respecting the test conditions mentioned above. To verify compliance with regulations, the calculations were made assuming that 1 kg of food comes into contact with 6 dm² of material.

According to experimental data and/or theoretical calculations such substances comply with the requirements of Article. 11 of Regulation 10/2011/EU paragraph 3, letters "a" and "b"; of Italian Ministerial Decree (D.M.) 21/03/1973.

The global migration limit, with the other restrictions (metals, primary aromatic amines according to Regulation 10/2011/EU annex II point 1.2) and the substances above mentioned, respect the limits of the same legislation updated to Regulation 1245/2020/UE.

In accordance with the statements received from our suppliers regarding the raw materials used in the current formulation of the above-mentioned hoses, the substances defined as "Biocides" (Regulation 528/2012/EU and subsequent additions) are not intentionally added during the production of the hoses.

Dual-use additives. In the hose there are the following substances regulated by Regulations (EC) N. 1333/2008 (food additives) and 1334/2008 (flavourings), and subsequent updates: E 470a Sodium, Potassium And Calcium Salts Of Fatty Acids.

The declaration refers only to the suitability for contact with foodstuffs with the a.m. restrictions.

This declaration will be updated in the event of changes in formulation of the material or if the legislative references are modified and updated so as to require a new check for compliance.

Daverio, 07.02.2023

Amministratore Delegato / CEO

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 MERLETT TECNOPLASTIC SPA Via XXV Aprile, 16 - 21020 Daverio (VA) Tel. +39 0332 942111 / +39 0332 947373 Fax +39 0332 949696 Share Capital € 3.000.000 REA No. 100622 VA - No. Mech. IT GOES 000987 Reg. Impr. of Varese, P.I./C.F./VAT: IT 00212770127 www.merlett.com - industrial-hose.IT@continental.com	DECLARATION OF CONFORMITY TO CONTACT WITH FOOD
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913040 ARMORVIN HNA

DECLARATION OF CONFORMITY	
Producer	ContiTech Industrial Solutions Italy S.p.A.
Article subject to declaration	913040 ARMORVIN HNA
Description Item subject to the declaration	Plasticized PVC pipe with built-in galvanized steel spiral
Date	07/04/2026
DECLARATION OF CONFORMITY TO	
European legislation	
Regulation 10/2011/EU and subsequent amendments and amendments;	
Regulation 1935/2004/EC and subsequent amendments and corrections	
Regulation 2023/2006/EC and subsequent amendments and corrections	
Italian legislation	
Ministerial Decree 21/03/1973 and subsequent updates and amendments;	
Presidential Decree 777/82 and subsequent updates and amendments;	
French legislation	
MCDA No. 3 (V03-09/09/2021) - Suitability for contact with food of organic materials intended to come into contact with food and subsequent amendments	
German legislation	
BfR II. Polyvinyl chloride without plasticizers, vinyl chloride copolymers without plasticizers and mixtures of these polymers with other copolymers and chlorinated polyolefins containing mainly vinyl chloride in the total mixture	
Croatian legislation	
NN 125/2009 - Ordinance on the Health Safety of Materials and Articles That Come into Direct Contact with Foodstuffs.	
Swiss legislation	
Swiss Ordinance 817.023.21, Section 4: Materials and Articles of Metal or Metal Alloy - Art. 8 General Requirements.	
European regulatory system applicable to the contact of plastic materials and articles with food	
INFORMATION ON SUBSTANCES SUBJECT TO MIGRATION RESTRICTIONS AND/OR RESTRICTIONS The above product may contain monomers, additives and other starting substances present in Annex I of Regulation (EU) No. 10/2011, whose specific migration, or concentration in the finished product, have been determined in accordance with current regulations, the results of which indicate values below the prescribed limits.	
COMPONENT	CAS No.
<i>Bis(2-ethylhexyl) adipate</i>	103-23-1
<i>Vinyl chloride</i>	75-01-4
<i>ESBO</i>	8013-07-8

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Irganox 1076 Bis(2-ethylhexyl) terephthalate Dual Use FCM 433 - Sodium stearoyl lactylate (E 481) FCM 127 - Azodicarbonamide (E927a) FCM 231 - Calcium carbonate (E170)	2082-79-3 6422-86-2
The following substances, or groups of substances, are not present in the above product:	
Bisphenol A, B, S, F, AF	80-05-7, 77-40-7, 5397-34-2, 620-92-8, 1478-61-1
Peroxides	-
Polycyclic aromatic hydrocarbons (PAHs)	120-12-7, 56-55-3, 50-32-8, 205-99-2, 192-97-2, 191-24-2, 205-82-3, 207-08-9, 218-01-9, 53-70-3, 85-01-8, 206-44-0, 193-39-5, 91-20-3, 129-00-0
Phthalates	117-81-7, 117-82-8, 85-68-7, 131-18-0, 84-61-7, 84-66-2, 84-69-5, 26761-40-0, 146-50-9, 68515-48-0, 27554-26-3, 605-50-5, 131-11-3, 84-74-2, 84-75-3, 117-84-0, 94491-96-0, 776297-69-9.
TERMS OF USE	
913040 - ARMORVIN HNA complies with repeated contact with foods that can be associated with the food simulants 10% Ethanol, 20% Ethanol and 3% Acetic Acid, called food simulants A, C and B referred to in Table 2 Annex III of Reg. (EU) No. 10/2011 and subsequent amendments for contact up to 2 hours at 70°C as indicated in tables 1 and 2 Chapter 2 - Annex V, and OM3 conditions reported in Table 3 - Chapter IV of Reg. (EU) No. 10/2011 as amended.	
Standard conversion ratio: 6 dm ² /kg	
Pipes are devices suitable for the passage of food products, not for their storage. Avoid food contact with the headers and the outer surface of the hose. The sanitization of the pipes must be carried out before use at the expense of the user.	
OTHER INFORMATION	
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CEO

