

// 412LE



**Milk tanker 10 bar (150 psi) - Hard wall  
FDA - arrêté du 09/11/94 D**

**Tube:** white NR.

**Reinforcement:** high tensile textile cords with embedded steel helix wire.

**Cover:** blue NR/EPDM - abrasion and ozone resistant.

**Application:** liquid food suction and delivery.

Special construction for maximum flexibility in milk tanker applications.

Sterilize with 110 °C (230 °F) steam for 10 minutes or with 5% soda solution.

**Constant operation:** -40 °C +80 °C (-40 °F +176 °F)

↻		↻		↻		↻		↻		↻		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
25,0	1"	35,00	1,38	10	150	30	450	50,0	1,97	100	0,660	0,45
32,0	1 1/4"	42,00	1,65	10	150	30	450	64,0	2,52	100	0,810	0,55
38,0	1 1/2"	48,00	1,89	10	150	30	450	76,0	2,99	100	0,940	0,64
40,0	1 9/16"	50,00	1,97	10	150	30	450	80,0	3,15	100	0,980	0,66
42,0	1 5/8"	52,00	2,05	10	150	30	450	84,0	3,31	100	1,030	0,70
51,0	2"	61,00	2,40	10	150	30	450	102,0	4,02	100	1,220	0,82
63,0	2 1/2"	75,00	2,95	10	150	30	450	126,0	4,96	100	1,860	1,26
76,0	3"	88,00	3,46	10	150	30	450	152,0	5,98	90	2,420	1,63
102,0	4"	116,00	4,57	10	150	30	450	204,0	8,03	90	3,630	2,44

// 418LE



**Milk tanker 10 bar (150 psi) - Hard wall - Crush resistant  
FDA - arrêté du 09/11/94 D**

**Tube:** white NR.

**Reinforcement:** high tensile textile cords with embedded PET helix.

**Cover:** blue NR/EPDM - abrasion and ozone resistant.

**Application:** liquid food suction and delivery.

Special lightweight construction for maximum flexibility and crush resistance in milk tanker applications.

Sterilize with 110 °C (230 °F) steam for 10 minutes or with 5% soda solution.

**Constant operation:** -40 °C +80 °C (-40 °F +176 °F)

↻		↻		↻		↻		↻		↻		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
40,0	1 9/16"	53,00	2,09	10	150	30	450	120,0	4,72	70	1,060	0,72
51,0	2"	64,00	2,52	10	150	30	450	153,0	6,02	70	1,310	0,89
63,0	2 1/2"	76,00	2,99	10	150	30	450	189,0	7,44	70	1,930	1,30
76,0	3"	92,00	3,62	10	150	30	450	228,0	8,98	70	2,630	1,77

Dimensions shown may be changed without prior notice

## // 455LE


**Fat food delivery 10 bar (150 psi)**  
**FDA - 3-A - D.M. 21/03/73**
**Tube:** white NBR.**Reinforcement:** high tensile textile cords.**Cover:** blue NBR/PVC - abrasion, ozone and oil resistant.**Application:** liquid and fat food-alcoholic beverages delivery - max 75%.

Sterilize with 130 °C (266 °F) steam for 30 minutes or with 5% soda solution.

**Constant operation:** -30 °C +100 °C (-22 °F +212 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
13,0	1/2"	23,00	0,91	10	150	30	450				0,380	0,26
19,0	3/4"	31,00	1,22	10	150	30	450				0,610	0,41
25,0	1"	37,00	1,46	10	150	30	450				0,760	0,52
32,0	1 1/4"	44,00	1,73	10	150	30	450				0,930	0,63
38,0	1 1/2"	50,00	1,97	10	150	30	450				1,090	0,74
51,0	2"	65,00	2,56	10	150	30	450				1,690	1,14

## // 455LL


**Fat food delivery 10 bar (150 psi)**  
**FDA - 3-A - D.M. 21/03/73**
**Tube:** white NBR.**Reinforcement:** high tensile textile cords.**Cover:** white NBR/PVC - abrasion, ozone and oil resistant.**Application:** liquid and fat food-alcoholic beverages delivery - max 75%.

Sterilize with 130 °C (266 °F) steam for 30 minutes or with 5% soda solution.

**Constant operation:** -30 °C +100 °C (-22 °F +212 °F)

↔		↔		↻		↻		⤴		⚖		
mm	in	mm	in	bar	psi	bar	psi	mm	in	%	kg/m	lb/ft
38,0	1 1/2"	48,00	1,89	10	150	30	450				0,880	0,60
51,0	2"	63,00	2,48	10	150	30	450				1,410	0,95
76,0	3"	88,00	3,46	10	150	30	450				2,050	1,38









# // HOSE IDENTIFICATION TABLE














## TECHNICAL FEATURES AND NORMS

HOSE	TUBE	MAX TEMP. (°C)	WP (bar)	STERILIZATION	 PHTHALATE FREE	 FDA TITLE 21	 2004/1935 EC	 10/2011 EC	 2006/2023 EC	FRANCE 1994/11/09 CAT. D
------	------	----------------	----------	---------------	--	---	---	---	---	--------------------------

### PVC HOSE

	<b>49000</b>	PVC	+60		5% Soda	◆	◆				
	<b>49200</b>	PVC	+60	Max 20	5% Soda	◆	◆	◆	A+B+C	◆	
	<b>4660L</b>	PVC	+60	Max 8	5% Soda	◆	◆	◆	A+B+C	◆	
	<b>4680H</b>	PVC	+60	Max 7	5% Soda	◆	◆	◆	A+B+C	◆	
	<b>47200</b>	PVC	+60	Max 15	5% Soda	◆	◆	◆	A+B+C	◆	
	<b>395BT</b>	PVC	+70	50		◆		◆	A+B+C	◆	

### RUBBER HOSE

	<b>350LE</b>	EPDM	+165	15 Water 6 Steam		◆	◆				
	<b>452LH</b>	NR	+80	10	Steam 110°C / 10' 5% Soda	◆	◆	◆		◆	IANESCO
	<b>402LH</b>	NR	+80	10	Steam 110°C / 10' 5% Soda	◆	◆	◆		◆	IANESCO
	<b>410LL</b>	CIIR	+108	16	Steam 130°C / 30' 5% Soda	◆	◆	◆		◆	IANESCO
	<b>412LE</b>	NR	+80	10	Steam 110°C / 10' 5% Soda	◆	◆	◆		◆	IANESCO
	<b>418LE</b>	NR	+80	10	Steam 110°C / 10' 5% Soda	◆	◆	◆		◆	IANESCO
	<b>455LE</b>	NBR	+80	10	Steam 130°C / 30' 5% Soda	◆	◆	◆		◆	
	<b>405LE</b>	NBR	+80	10	Steam 130°C / 30' 5% Soda	◆	◆	◆		◆	
	<b>417LE</b>	NBR	+80	16	Steam 130°C / 30' 5% Soda	◆	◆	◆		◆	
	<b>5090E</b>	UPE	+100	16	Steam 110°C / 10' 5% Soda	◆	◆	◆	A+B+C+D2	◆	
	<b>903LE</b>	EPDM	+180	10	Steam 130°C / 30' 5% Soda	◆	◆				
	<b>720LA</b>	NR	+80	10	5% Soda	◆	◆				
	<b>760LA</b>	NR	+80	5	5% Soda	◆	◆				

ITALY D.M. 21/03/73	ALCOHOLIC BEVERAGES				DAIRY INDUSTRY		FOOD INDUSTRY			CLEANING
	≤20%	≤50%	≤75%	≤95%	MILK COLLECTING	MILK TRANSPORT	JUICES, SODAS, SAUCES, SOUPS WITH ACIDITY CONTENT	LIQUID FOOD	FAT FOOD	BULK FOOD

פתרונות גמישים

								◆			
	◆							◆			
	◆							◆			
	◆							◆			
	◆							◆			
								◆			◆

GUMI פתרונות גמישים לתעשייה

											◆
		◆						◆			
		◆						◆			
				◆			◆	◆			
					◆	◆	◆	◆			
					◆	◆	◆	◆			
CERISIE			◆				◆	◆	◆		
CERISIE			◆				◆	◆	◆		
CERISIE			◆				◆	◆	◆		
				◆			◆	◆	◆	◆	
	◆						◆	◆			
										◆	
										◆	

GUMI פתרונות גמישים לתעשייה

## // FULL COMPLIANCE WITH EUROPEAN REGULATIONS

ALFAGOMMA offers a wide range of rubber and PVC hoses for food transfer fully complying with the existing regulations for materials in contact with food:

### EC 1935/2004

General requirements for materials that come into contact with food.

ALFAGOMMA food hoses are specifically developed to meet the migration limits so as not to endanger human health, change the food composition or deteriorate the taste and odour of food.

### EC 2023/2006

Good manufacturing practice for materials and articles intended to come into contact with food  
ALFAGOMMA has thorough quality assurance and control systems

### EU 10/2011

Requirements for plastic materials, restrictions on the use of phthalates, use of specific simulants depending on food types:

	SIMULANT	FOOD
A	ethanol 10%	aqueous foods
B	acetic acid 3%	acidic foods
C	ethanol 20%	alcoholic foods up to an alcoholic content of 20%
D1	ethanol 50%	alcoholic foods with an alcoholic content of above 20% and milk products
D2	vegetable oil	fat foods
E	MPPO (Tenax)	dry foods

ALFAGOMMA PVC food hoses are totally phthalate free.

### NATIONAL LEGISLATIONS OF EU MEMBER STATES

ALFAGOMMA rubber food hoses are tested by approved external laboratory according to the most important european national provisions.

**ACCORDING TO EC 1935/2004, THE FULL RANGE OF AG FOOD HOSES BEAR THE “GLASS AND FORK”  SYMBOL ON THE BRAND.**



Gumi Tel Aviv LTD.

10 Hamashbir St., Holon 58855 Israel  
Tel +972.3.7357708 – Fax +972.3.7357707  
Whatapp only 052-4343109  
gad@gumi.co.il – www.gta.co.il



**GUMI**  
פתרונות גמישים לתעשייה

**GUMI**  
ALFAGOMMA GROUP  
פתרונות גמישים לתעשייה

## FOOD HOSE CLEANING INSTRUCTIONS



**GUMI**  
פתרונות גמישים לתעשייה  
**ALFAGOMMA**  
פתרונות גמישים לתעשייה

## // GUIDELINES FOR CLEANING OF ALFAGOMMA RUBBER FOOD HOSE

ALFAGOMMA cleaning instructions are guidelines only.

Possible national government regulations supersede the following suggestions regarding food hose cleaning.

The frequency and time of the cleaning operations could affect the life of the hose.

Users should regularly check the physical and mechanical conditions of the hose.

### CLEANING BEFORE FIRST USE

Hose	Prewash	Cleaning			Final Wash
		Media	Max Concentration	Max Temperature	
452LH 402LH 412LE 418LE 509OE 720LA 760LA	Drinking Water 80 °C 10 min	Steam	—	110 °C	Drinking Water 80 °C 10 min
455LE 405LE 417LE 410LL		Sodium Hydroxide	2%	40 °C	
			5%	20 °C	

### STANDARD CLEANING

Hose	Cleaning			Final Wash
	Media	Max Concentration	Max Temperature	
452LH 402LH 412LE 418LE	Steam	—	110 °C	Drinking Water 80 °C 10 min
509OE 720LA 760LA	Sodium Hydroxide	2%	40 °C	
		5%	20 °C	
455LE 405LE 417LE 410LL	Steam	—	130 °C	
	Sodium Hydroxide	2%	40 °C	
		5%	20 °C	

**BEFORE USING ALTERNATIVE MEDIA, PLEASE CONTACT ALFAGOMMA.**

**AVOID HIGH PRESSURE CLEANING OF THE HOSE TUBE.**



Gumi Tel Aviv LTD.

10 Hamashbir St., Holon 58855 Israel

Tel +972.3.7357708 – Fax +972.3.7357707

Whatapp only 052-4343109

gad@gumi.co.il – www.gta.co.il