

# KLENET



## PROCESSING EQUIPMENT

Food industry  
Cleaning



### APPLICATIONS

Washdown and cleaning in food processing industries, canneries, dairies, slaughterhouses, etc.

### ADVANTAGES

- † Very good resistance to high temperatures.
- † Smooth for easy handling with light-coloured, non-marking cover.
- † Excellent resistance of the cover compound to animal and vegetable grease.
- † Contains no phthalate.

### TECHNICAL DESCRIPTION

Inner tube: food grade quality oil resistant NBR, white, smooth.

Reinforcement: synthetic textile.

Cover: oil and weather resistant NBR/PVC, blue, smooth.

Temperature range: -20 °C to +95 °C.

### STANDARD/APPROVAL

EU regulations No. 1935/2004, 2023/2006.



FDA regulation No. 21 CFR 177.2600.



German legislation: BfR recommendation XXI cat. 3.



French legislation.



All relevant migrations tests (France and FDA) were performed by the French institute of Poitiers (IANESCO) and confirmed compliant.

### COUPLINGS/FITTINGS

Specially designed fittings are available, please contact us for further information in order to get optimum connections.

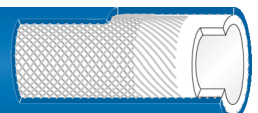
### COMPLEMENTARY INFORMATION

Not recommended with washdown guns.

TRELLEBORG

KLENET - 7 - WP 10 BAR

95 °C - Made in France



**PROCESSING EQUIPMENT****KLENET**

ID mm	OD mm	WORKING PRESSURE bar	BURSTING PRESSURE bar	BENDING RADIUS mm	WEIGHT kg/m	LENGTH m	ARTICLE NUMBER	STOCK ( ) or min. order m
13.0 ±0.5	21.4 ±0.7	10	30	80	0.3	20	0060962	
13.0 ±0.5	21.4 ±0.7	10	30	80	0.3	40	0060961	
13.0 ±0.5	21.4 ±0.7	10	30	80	0.3	60	0060952	4620
13.0 ±0.5	21.4 ±0.7	10	30	80	0.3	120	0060953	
16.0 ±0.7	25.0 ±0.8	10	30	95	0.38	20	0060964	
16.0 ±0.7	25.0 ±0.8	10	30	95	0.38	40	0060963	
16.0 ±0.7	25.0 ±0.8	10	30	95	0.38	60	0060954	1440
16.0 ±0.7	25.0 ±0.8	10	30	95	0.38	120	0060955	
19.0 ±0.7	28.4 ±0.8	10	30	115	0.48	20	0060966	
19.0 ±0.7	28.4 ±0.8	10	30	115	0.48	40	0060965	
19.0 ±0.7	28.4 ±0.8	10	30	115	0.48	60	0060956	
25.0 ±1.0	35.0 ±1.1	10	30	155	0.62	20	0060968	
25.0 ±1.0	35.0 ±1.1	10	30	155	0.62	40	0060967	
25.0 ±1.0	35.0 ±1.1	10	30	155	0.62	60	0060957	1020

Tolerance on length: ±1% (ISO 1307 Standard).

Digital version



**DECLARATION OF COMPLIANCE TO REGULATIONS ON  
MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD  
as per article 16 of REGULATION (EC) No 1935/2004**

I, the undersigned, Mr Gérard SOULAGNET

Company: **TRELLEBORG INDUSTRIE SAS**

Address: ZI La Combaude - Rue de Chantemerle CS 10725- 63050 Clermont-Ferrand Cedex 2

Acting in the capacity of: R&D Material Manager

Hereby declare that the materials intended to come into contact with food entering into the composition of the article referenced by the client as follows: **KLENET**, belong to the category of materials RUBBER (as per Annex I of regulation EC 1935/2004).

I declare that our product complies with the requirements of:

- Regulation (EC) No 1935/2004 of 27<sup>th</sup> October 2004 modified;
- Regulation (EC) No 2023/2006 of 22<sup>nd</sup> December 2006 modified;
- French Regulation dated 1994/11/09 on rubber materials: IANESCO Tests reports IANESCO N°E17-15890-1 & N°E17-15890-2 dated 28 July 2017.

Compliance is declared:

- subject to respect of the storage, handling and utilisation conditions specified by Trelleborg , subject to the use of original spare parts, and taking into account the specific characteristics of our product.
- with the following restrictions, where applicable:
  - In the case of modification of the physicochemical properties of the food in contact with the material, modification of the said food, modification of the contact conditions (temperature, length of time, etc.) and in the case of modification of the process or cleaning and disinfection conditions as defined by Trelleborg, the recipient of this declaration must check the continuing fitness for use of the material or article referred to herein.
  - Any changes in the material or article or its use must be submitted for reassessment of compliance.

This declaration of compliance is based on the following:

- Declaration(s) of the suppliers of materials
- Overall migration analysis according to French Regulation dated 1994/11/09 on rubber materials, category D.

Stimulants list

- B : Acetic acid à 3%
  - Ethanol 70%(covering simulants A, C & D1)
  - Isooctane - Ethanol 95% (as a substitute of the D2 simulant as stipulated in directive 97/48.
- Analysis of substances subject to limitation (including specific migration) according to French Regulation dated 1994/11/09 on rubber materials, category D.

For reasons of confidentiality, we do not specify substances and associated LMS.

This declaration is valid on the date of delivery of the material or article. It must be renewed whenever compliance to above is no longer ensured (change of material or change in regulations before delivery of the material or article).

We keep all appropriate documentation in support of the said compliance at the disposal of the relevant authorities.

We also confirm that our product complies with requirements of these countries:

**Germany**

- complies with Category 2 Recommendation XXI; Commodities based on natural and synthetic rubber; Migration - Test BfR N° H-223290-12-Bg dated 14/11/2012.

**United States**

- complies with FDA CFR 21 § 177.2600 (e), Rubber articles intended for repeated use -

For information, we confirm furthermore that this hose, as all our hoses rubber intended for the food contact, contains no phthalate and no bisphenol A.

Clermont-Ferrand, 19/09/2017

R&D Material Manager  
Gérald SOULAGNET



**Trelleborg Industrie SAS**  
au capital de 10 527 685 €  
ZI La Combaude  
Rue de Chantemerle CS 10725  
F - 63050 Clermont-Ferrand Cedex 2  
RCS Clermont-Ferrand B 391 933 397

# Advice to users of Trelleborg food hoses

## Before you start using your Trelleborg food hose:

Before first use, you should proceed as follows.

- Fill hose with hot water (+ 70 °C to + 80 °C).
- Keep water inside for minimum 12 hours.
- Then, clean hose using any of the following cleaning processes.

## Advice for cleaning processes:

Hot water	Steam
<b>CITERDIAL - LACTADIAL - ALCODIAL - VENDANGE VINITRELL - SUPERVRAC AL EC - TRELLVAC AL EC</b>	
<b>90 °C maximum</b>	<b>110 °C during maximum 10 minutes</b>
<b>ALIKLER G2 - ALIKLER D - MILLESIME - MULTIDIAL UPE - TRELLVIN</b>	
<b>95 °C maximum</b>	<b>130 °C during 30 minutes</b>

## Chemicals

**Nitric acid** (HNO<sub>3</sub>) or product with additional nitric acid.

Maximum concentration: 0.1 % at 85 °C  
3 % at room temperature

**Chlorine** (Cl) or product with additional chlorine.

Maximum concentration: 1 % at maximum 70 °C

**Sodium hydroxide** (NaOH) or product with additional sodium hydroxide.

Maximum concentration: 2 % from 60 °C to 80 °C  
5 % at room temperature

**Hydrogen peroxide** (H<sub>2</sub>O<sub>2</sub>) or product with additional hydrogen peroxide.

Maximum concentration: 3 % at room temperature  
MILLESIME only: 1.5 % at maximum 85 °C

**Every cleaning cycle must be immediately followed by a complete rinse.**

### △ Storage:

Keep away from (sun) light and heat.  
Only use pierced plugs when needed.

### △ Stagnation:

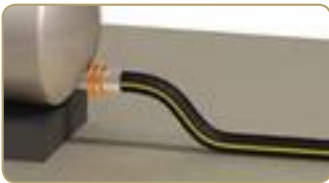
With ALCODIAL only.

⊗ **Do not use high pressure cleaning systems to wash inside the hose.**

# Hose assembly Handling guide

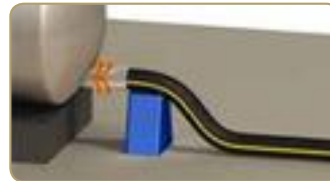
## Special care for installation of hose assemblies.

### Incorrect



Never use hose unsupported

### Correct



Always support hose near coupling

### Incorrect



### Correct



### Incorrect



Protect against sharp edges, quay edges. Ship's guard rail etc.

### Correct



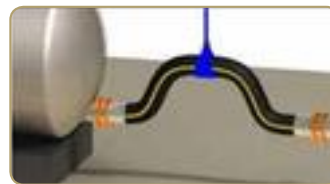
Acceptable

### Incorrect



Never use hose unsupported

### Correct



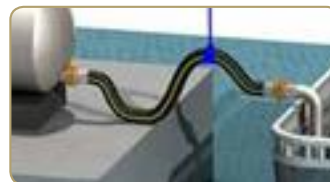
Support hose with slings where appropriate

### Incorrect



Never support hose with single rope

### Correct



Support hose with slings

### Incorrect



Never overbend hose or allow hose to hang between quay and ship

# Hose assembly Handling guide

Special care for installation of hose assemblies.

**Incorrect**



**Correct**



**Incorrect**



**Correct**



**Incorrect**



**Correct**



**Incorrect**



**Correct**



# Hose assembly Handling guide

Special care for installation of hose assemblies.

**Incorrect**



**Correct**



**Incorrect**



**Correct**



**Incorrect**



**Correct**



**Incorrect**



**Correct**



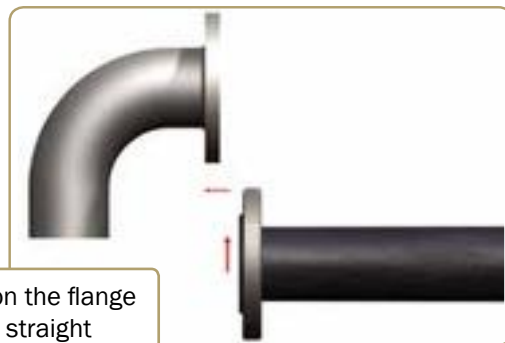
# Hose assembly Handling guide

Special care for installation of hose assemblies (diameter above 100 mm).

**Incorrect**



**Correct**



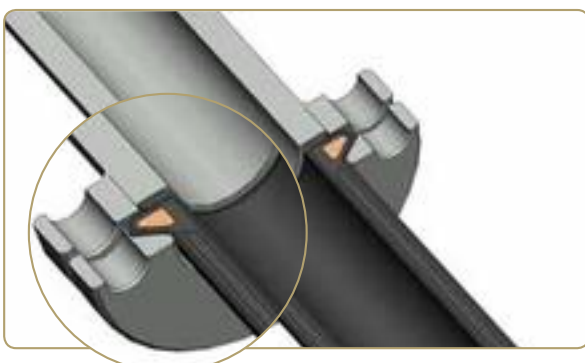
Always position the flange  
with hose straight



Special care for END-FLEX ends.



**CORRECT** on flat-face flanges



**INCORRECT** on raised-face flanges



**CORRECT** on raised-face flanges with carbon fibre gasket

# Hose assembly

## Handling guide

2016

Special care for installation of hose assemblies (diameter above 100 mm).

**Incorrect**



**Correct**



**Incorrect**



**Correct**



For transportation, installations or support in place,  
never use a single rope to lift hose.  
Only slings in sufficient numbers depending of the hose lengths.

For handling in straight length, a lifting beam must be used imperatively.

We recommend the use of slings (150 mm wide minimum).

Number of slings should be at least:

- 2 for length < 6 m
- 3 for length of 6 to 8 m
- 4 for length > 8 m

**Correct**



# Storage guidelines for hoses and hose assemblies

## The sensitivity of rubber to elements such as:

- ★Oxygen
- ★Ozone
- ★Infrared Rays
- ★Ultraviolet rays
- ★Heat

requires storage to follow some simple rules in order to protect the product against accelerated aging.

## The following guidelines are in accordance with the standard ISO8331-2016:

### Rubber, composite and plastic hoses and hose assemblies guidelines for selection, storage, use and maintenance.

#### Storage room

- ▶▶ The room where the product is stored should be cool, dry, dust free and ventilated but without drafts.

#### Storage time

- ▶▶ The storage time should be minimized. FIFO management (first in - first out) is highly recommended.

#### Temperature

- ▶▶ The temperature should be as stable as possible and preferably between -10° C and +25° C.
- ▶▶ Below -10° C, caution should be taken when handling the product because it can become very rigid.

#### Heating

- ▶▶ The hoses and hose assemblies must be kept at least 2 meter away from any heat source.

#### Humidity

- ▶▶ The relative humidity should be below 70%.

#### Light

- ▶▶ Items should be stored in a dark place, and protected from sunlight or any artificial light. (UV and IR).

#### Ozone

- ▶▶ The storage room must not contain ozone-producing equipments, such as lamps or mercury vapor tubes, high voltage electrical equipment, electric motors, etc ...

#### Environment

- ▶▶ Solvents, fuels, lubricants, chemicals should not be kept in the same room as hoses.

#### Method of storage

- ▶▶ Hoses and hose assemblies must lie unconstrained and piling shall be limited whenever possible.
- ▶▶ The original packaging must be kept on as long as possible, including caps protecting the ends of the hoses.