



Drain & Sewer Cleaning



Drain and Sewer cleaning
Fluid transfer solutions
www.trelleborg.com/industrialhose

Trelleborg Fluid Handling Solutions

Trelleborg Fluid Handling Solutions is part of Trelleborg Industrial Solutions.

With over 1000 employees and head office located in Clermont-Ferrand (France), Trelleborg Fluid Handling Solutions is a key leading player proposing high performance and optimal solutions for every situation with low and medium pressure Industrial Hose, Oil and Marine Hoses, Rubber Sheeting & Matting and Expansion Joint based on advanced polymer technology with production sites in France, Spain, Sweden and Brazil.

Trelleborg Fluid Handling Solutions offers a very large range of competitive products, solutions and services that meet your needs and requirements for all types of application for your different businesses.



► Your Partner for Fluid Handling

Trelleborg Fluid Handling Solutions is organized around 9 applications areas:

- Oil and Gas
- Construction and Mining Equipment
- Energy
- Chemical, Pharma and Food
- Agriculture and Farms
- Environment and Cleaning Waste Water
- Processing Equipment and Machine Tools
- Industrial Transportation
- Life Science

This enables better reactivity to adapt our offer to fast moving application or to design special solutions tailor-made for you. In all cases we follow closely legal requirements or standard evolutions.

► Our logistics platform: availability, reactivity and reliability

Over 5000 different items are stored in our 3 logistic platforms in Clermont-Ferrand (France), Trelleborg (Sweden) and Izarra (Spain) to meet your need for immediate and reliable delivery.

In order to help you to accelerate the development of your business, our service list also covers

- Compounding formulation
- Hose configuration modeling
- Finite element calculations
- Hose design
- Hose testing (pressure, bending, elongation resistance, ...)
- Hose certification (PED, ADR, REACH, ...)
- Handling and storage instructions
- Installation instruction and supports
- Hose inspection and refurbishment
- Hose failure analysis
- After sales support
- Training for sales team
- Training for assembly workshop operators

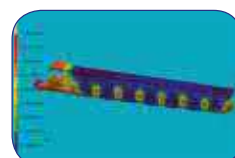
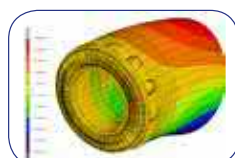
► Our research and development centers through continuous innovations

Located in France and Brazil for Oil & Marine Hose, France and Sweden for Industrial Hose and Spain for Rubber Sheeting/Matting and Expansion Joint, our R&D centers provide innovating solutions for compound, finished products and customized solutions.

All production sites are well equipped with laboratory, test bench and calculation centers to provide ready-to-use solutions based on our experience of the applications and competences.

► Our couplings technical centers

With location all over Europe (Germany, Norway, Sweden and France), Brazil and China we offer a large range of rubber hose assembly, composite hose, Stainless Steel or PTFE hose with dedicated service (24 hours to 48 hours delivery) and accessories.



ADR Applications

PUMPADUKT/TRELLFLEX



TRELLEX

- Suction and discharge of petroleum and chemical products
- Composite hose
- ADR applications - EN 13765
- Working pressure: 10/14 bar
- Max vacuum: 0.9 bar
- Diameters: 25 to 250 mm



PUMPADUKT S

- Suction and discharge of petroleum and chemical products
- ADR applications - EN 12115
- Working pressure: 16 bar
- Max vacuum: 0.9 bar
- Diameters: 19 to 150 mm

Sewer jetting

TRELLJET 513/STARKLER/ASPIKLER N/



STARKLER

- Polyvalent hose for water discharge
- Working pressure: 10/20 bar
- Diameters: 12.7 to 38 mm



TRELLEJET 513

- Sewer jetting
- Working pressure: 300 bar
- Diameters: 13 to 16 mm



GUILLEMIN



STORZ



SPHERICAL



PA-RI
CLAMP



EXPRESS



CLAMP

ASSAINIX/CANALKLER 250S



CANALKLER 250S

- Sewer jetting
- Aramid textile reinforcement
- Working pressure: 250 bar
- Diameters: 13 to 38 mm



ASPIKLER N/ASSAINIX

- Suction and discharge for sewer cleaning vehicles
- Working pressure: 4/6 bar
- Max vacuum: 0.8/0.9 bar
- Diameters: 90 to 150 mm



BSP
60°



FERRULE



CANALKLER 250S couplings
Press couplings - Reusable repair couplings

CANALKLER 250S

Lower your overall costs

Longer lifespan

We performed tests according to EN ISO6945:2000, the abrasion resistance of CANALKLER 250S is 6,5 times higher than CANALKLER 250.

Higher speed

Due to the low weight and sliding resistance of CANALKLER 250S sewer cleaning hose, a hose could be dispatched into a drain 100 meters long in only 60 seconds, **less than half the time** taken to dispatch a metal-reinforced hose. Working on an average of 300 kilometers of sewers cleaned per year that represents a saving of 50 hours working time per annum.

Lower water and fuel consumptions

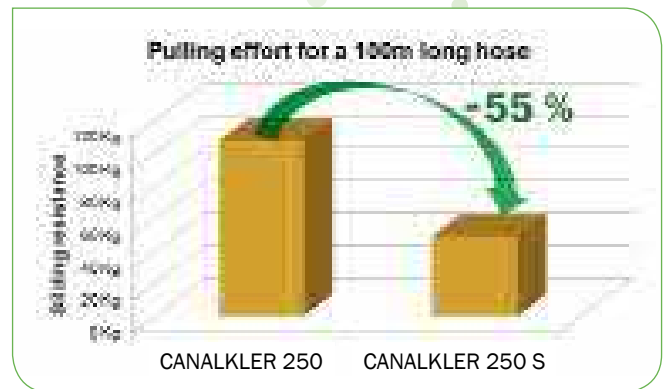
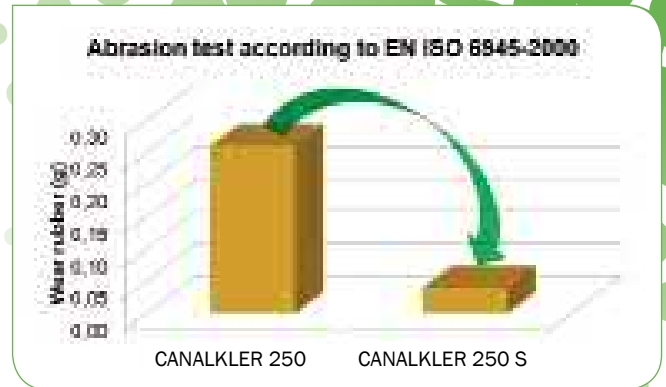
This 50 hours saving, due to the higher speed of CANALKLER 250S into the sewer, **provides savings of 750 m³ water and 1.000 liters fuel.**

Greater safety

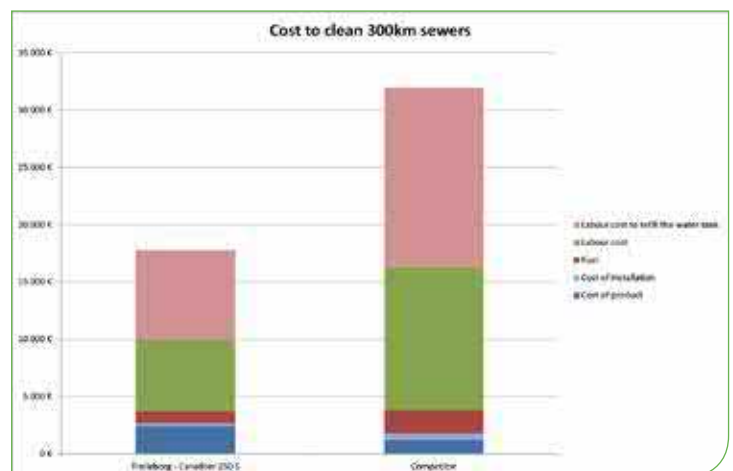
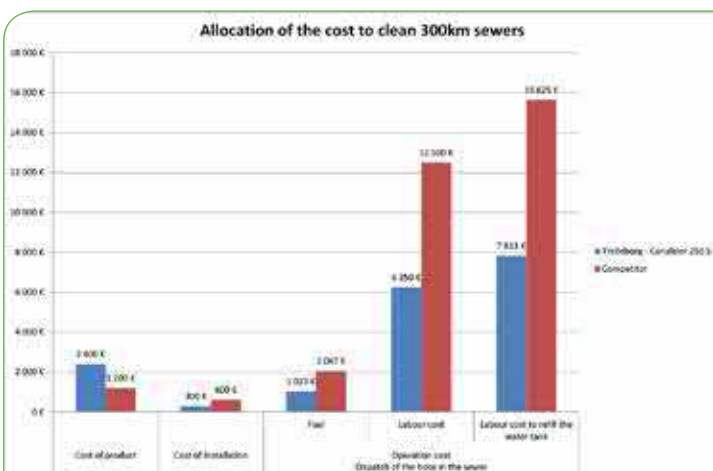
CANALKLER 250S is manufactured with **aramide** textile reinforcements. These reinforcements guarantee a **250 bar working pressure.**

100% hoses are tested at 375 bar and are delivered with a quality certificate.

These textiles reinforcements are safe for the operators unlike steel reinforced hoses.



Use CANALKLER 250S and save around 14,000 € per annum and per vehicle



Cost to clean 300 km sewers
Saving

17 786 €
14 186 €

31 972 €

**Discover our video
on our web site**

www.trelleborg.com/en/Industrial-Hose





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**Druckverluste bei Industrieschläuchen aus Gummi
bezogen auf 10m Schlauch (bar)**

l/m	NW 10	NW 13	NW 20	NW 25	NW 32	NW 38
15	0,82	0,17	0,01			
20	1,46	0,33	0,04	0,01		
25	2,29	0,54	0,06	0,02		
30	3,29	0,81	0,08	0,02		
40	5,86	1,48	0,18	0,05		
50	9,16	2,36	0,26	0,09	0,00	
60	13,2	3,45	0,41	0,11	0,02	
75	20,62	5,45	0,59	0,21	0,05	0,02
100		9,80	1,14	0,37	0,09	0,04
125		15,02	1,76	0,58	0,16	0,07
150		21,83	2,50	0,84	0,22	0,10
175			3,38	1,14	0,33	0,12
200			4,58	1,49	0,41	0,14
225			5,74	1,89	0,50	0,17
250			7,04	2,34	0,65	0,20
275			8,47	2,83	0,77	0,29
300			10,31	3,37	0,96	0,36
325			12,02	3,96	1,09	0,45
350			13,87	4,59	1,32	0,52
375			15,84	5,28	1,48	0,62
400			20,67	6,52	1,81	0,69
450				8,21	2,29	0,79
500				10,09	2,76	0,98
550				12,08	3,48	1,20
600				14,00	4,00	1,40
750				21,50	6,30	2,10
900					9,05	2,90
1050					12,00	3,90
1200					16	5,00