Ships Service



Keep Moving with a new era in **Tank and Hold Cleaning**

Unmatched speed. Unrivalled service.

- Only with NAVADAN

by Wilhelmsen



Tankers and bulk carriers are the backbone of the global maritime industry, transporting essential commodities from crude oil, refined products, chemicals and consumable oils to mineral ores and grains.



Why cleaning is critical

In every port where cargo is unloaded, thorough cleaning of tanks and holds is a critical process performed before the next cargo comes on board. This ensures valuable cargos are not contaminated by residues from the previous cargo. For example, when a bulk carrier switches from carrying coal to grains or when a tanker switches from shipping waxy or sticky dirty petroleum products to clean products with lighter properties. Tank cleaning is also crucial for maintaining the integrity and extending the lifetime of internal tank coatings.



Time is of the essence, always

In the fast-paced and competitive world of maritime transport where every minute counts, effective and timely cargo hold cleaning (CHC) and tank cleaning (TC) plays a critical role in ensuring the financial performance of vessels and the safety of their cargoes. For ship owners and operators working to tight margins, ensuring ships are consistently clean and ready to sail on time is a crucial bottom-line priority.

Whenever a ship unloads its cargo at port, the race against time begins to prepare it for the next cargo mission. During these critical hours, the prompt application of cleaning products and solutions, assuming they are not already onboard, takes precedence over cost considerations. Consistently strong performance in this area can be the key to securing and maintaining important freight contracts with demanding charterers and cargo owners.

Operational challenges

The top priority for vessel operators and masters is to minimize turnaround time. It would help to have all the necessary supplies ready when your ship arrives in port. Working with reliable suppliers who deliver high-quality and compliant cleaning products on time and are easily contactable can significantly streamline operations and ensure overall efficiency.

Effective cleaning is crucial in the maritime industry

// By ensuring vessels' safety, efficiency, and longevity we help maintain a pristine environment, support the crew's well-being and contribute significantly to the overall success of maritime operations.



Consequences of poor cleaning

By promptly addressing cargo hold and tank cleaning issues, you can safeguard your vessels against potential risks such as preventing residual contamination of valuable cargo, avoiding structural damage to the tank or hold and the following challenges:



Best practices to ensure a timely turnaround



Prioritize quality over short-term savings to ensure long-term success.

Stay compliant to prevent safety risks and inspection failures. Conduct inspections before cargo loading to avoid downtime.



Partner with trusted suppliers for increased efficiency and optimal value.

Invest in high-quality Marpol Annex I, II and V compliant cleaning products to maintain the structural safety of holds and tanks, prevent contamination of cargo and reduce the risk of incidents and injuries.





Choose suppliers with an extensive inventory and distribution network to support your vessel globally.



Ensure your crew is trained and motivated to carry out cleaning properly, with good knowledge of equipment and cleaning agents.

*MARPOL Annex V states that cargo residues and cleaning additives contained in cargo hold wash waters may not be discharged into the sea if these are harmful to the marine environment. Sodium hypochlorite is often used for cargo hold cleaning, but it is harmful to the marine environment. If wash waters contain substances harmful to the marine environment, they must be discharged at shore reception facilities and the burden of proof lies with the vessel.

>>> Tank and Hold Cleaning



Unparalleled distribution network

Our extensive maritime supply network covers over 2,000 ports in more than 100 countries worldwide, ensuring we can deliver products and services precisely when and where you need them. Enhanced by a distribution network of local chemical blenders, we now offer reduced lead times and faster delivery of cleaning solutions to vessels globally.

The smart way to shorten turnaround time

Our strategic acquisition of Navadan and Stromme now brings all tank and cargo hold cleaning needs under one roof. Our new Navadan by Wilhelmsen brand is the embodiment of Navadan's agility and superior service, Stromme's efficiency and expertise, and Wilhelmsen's reach and resources.

With our expanded portfolio, you can expect the same high-quality products, technical support, simplified sourcing, and consistent, standardized products, saving you time and effort. // It is our mission
to bring you
peace of mind
through outstanding
service and quality
products that are
always available.



// 100 Countries // 2,000 Ports

Global availability with fast delivery

Our global presence and local blending facilities enable you to access solutions whenever and wherever you need them.

Wide range of products catering to all your cleaning needs

Our comprehensive range of tank and hold cleaning products and equipment cover all your cleaning needs.

High-quality products developed to meet your expectations

Our solutions are engineered to meet rigorous standards, ensuring your vessel's tank or hold is prepared for its next voyage.

Products that make cleaning jobs compliant and safe

Our products help you comply with regulatory requirements without compromising safety.

A team of experts is available 24/7 to help find the solutions best for you!

Our dedicated team of experts is ready to guide and support you in identifying the optimal tank and hold cleaning solution for your vessel.

We will keep you -Moving

// Our key value pillars as your best choice for end-to-end cleaning care.

- III-









Tank and Hold Cleaning Products and Equipment

Tailored solutions

Our comprehensive product range ensures effective cleaning with the best-suited equipment tailored to your needs. Our advisory team can accommodate all your specific needs pairing either standardised products or locally blended chemicals with the best-suited equipment for the job.



Chemical, equipments and technical expertise need to be smaller than tailored solutions

Our cleaning agents have higher concentrations of active chemicals to provide exceptional cleaning properties. This can help you effectively reduce the need for excessive or repeated applications and minimize chemical wastage, for more efficient and responsible usage.



Equipment

Our equipment is designed for tank and cargo hold cleaning in the tough marine environment, maximizsing durability, and readiness for the next job.

For optimal cleaning results, our cleaning equipment complements for our chemicals, ensuring reliable and effective cleaning results every time and contributing to the overall maintenance and longevity of the vessel.



Technical Expertise

Our Tank and Hold Cleaning Specialist Center offers round-the-clock technical expertise, support, and quotations, along with a dedicated team of technical specialists and Port Service Engineers for onboard support whenever needed.

Tank and Hold Cleaning Product Portfolio

Tank Cleaning Chemicals	
Navadan GentleTank	Water based alkaline clear cargo changeover.
Navadan CleanTank	Heavy duty water based al removal of Inert Gas Syste
Navadan EasyTank	Weak Acid Buffer cleaner f cargo contamination.
Navadan ShineCargo	Acid based cleaner used fo ore and specific bauxite. C
Navadan OceanTank	Solvent based cleaner use and waxes.
Navadan ReadyTank	Water based pH neutral cle vegetable oils and animal o
Hold Cleaning Chemicals	
Navadan CleanHold	Heavy-duty alkaline cleane
Navadan FreshHold	Highly concentrated acid of clinker, rust, and scales in the second scale s
Navadan BarrierHold	Water resistant cargo hold preparation of dry bulk ves
Navadan ShineCargo	Acid based cleaner used fo ore, and specific bauxite. C





er for zinc coated vessels, ideal for liquid

Ikaline tank cleaner for tanker vessels ideal for em (IGS).

for Zinc coated tanks. For removal of low PH

or removal of palm fatty acid distillate, white stains, an be used as general rust and stain remover.

ed for removal of heavy hydrocarbons, mineral oils,

eaner used for removal of light hydrocarbons,

er with high foam properties for dry-bulk vessels.

cleaner for removal of cement, limewash, concrete, cargo holds.

barrier coating that provides a barrier for ssels before loading challenging cargoes.

or removal of palm fatty acid distillate, white stains, Can be used as general rust and stain remover.





Hold Cleaning Equipment		
Navadan Diaphram Kit	Slop water evacuation I	
Navadan Submersible Kit	Slop water evacuation I	
Navadan Protection Kit	High quality acid perso of chemical suit, gloves	
High-pressure Equipment		
	Unitor™ HPCE Dynam	
Unitor™ HPCE Dynamis 300+™	Unitor™ HPCE Dynam	
	Unitor™ HPCE Dynam	
Navadan Tool Carrier	A tool carrier designed t	
	the use of chemicals. Fi	

	_ Unitor™ HPCE Dynamis 300+™	Unit
sh down of the ded.		Unit
sh down of the	Navadan Tool Carrier	Α too the ι
- h - t- h +	Navadan Anaconda	A hig after
n height up	Navadan Python	A hig carg
carriers cargo	Navadan Hotbox	A 50 by he

Please contact your local WSS sales representative for the availability and prices of the Tank & Hold Cleaning product portfolio.

Tank Cleaning Equipment			
Navadan Pump & Spray	Complete kit for injection of chemicals and spot removal of stains in hard-to-reach places in tanker vessels.		
Navadan Protection Kit	High quality acid personal protection equipment for 4 people, consisting of chemical suit, gloves and respiratory protection.		

Dry bulk does not have preinstalled cleaning equipment and requires chemicals, chemical applicators, slop water evacuation, and high-pressure washers for common cleaning tasks.

Hold Cleaning Equipment		
Navadan Ultimate Kit	Designed for efficient chemical application, rinse off and wash down of the entire cargo holds on board using a diagram pump.	
Navadan Essential Kit	Designed for efficient chemical application, rinse off and wash down of the entire cargo holds on board with the minimal equipment needed.	
Navadan Panamax Kit	Designed for efficient chemical application, rinse off and wash down of the entire cargo holds on board using a pressure tank.	
Navadan Applicator	Designed for light cleaning and application of cargo barrier in height up to 12 meters.	
Navadan Tornado Kit	Designed for cleaning and descaling of medium to large bulk carriers cargo holds, in height up to 30 meters.	
Navadan Maxi Kit	Designed for cleaning, wash down and descaling of large to capesized bulk carriers cargo holds from the tank tops, in height up to 60-80 meters.	





on kit using an air driven diaphram pump.

n kit an electric submersible pump.

sonal protection equipment for 4 people, consisting /es and respiratory protection.

amis 300+™

amis 350+™

amis 500+™

d to clean cargo holds and substitute First tool is designed using high-pressure water.

igh-pressure pole designed to do spot cleanings er chemical cleanings.

igh-pressure pole designed to mainly clean box-shaped go holds up to 20m, substituting chemicals.

00 bar hotbox that turns high pressure cleaners into hot washer neating a pressurized water stream.

Wilhemsen Ships Service Phone: (+47) 67 58 40 00 Fax: (+47) 67 58 40 80

Postal Address PO Box 33, NO-1324 Lysaker, Norway



by Wilhelmsen

For more information, please contact us at: wss.tankandholdcleaning@wilhelmsen.com

─ Only with NAVADAN[™]

V1.0-072024