



# SOLUTIONS FOR THE PAINT AND COATINGS INDUSTRY



# WELCOME

## ABOUT US

As one of the world's leading manufacturer of stainless steel containers, THIELMANN delivers unsurpassed container expertise. The profound knowledge we've gathered in more than 275 years of container production and use, in a diverse range of industries, render us uniquely qualified to confidently and successfully tackle your business challenge.

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## THE OPTIMAL STORAGE SYSTEM FOR MAINTAINING THE CHARACTERISTICS OF COATINGS PRODUCTS

PAINTS AND VARNISHES REQUIRE CONTAINERS THAT PROTECT THEM FROM TEMPERATURE CHANGES AND OTHER EXTERNAL AGENTS. THIELMANN PROVIDES THE WIDEST RANGE OF CONTAINER SOLUTIONS FOR THE COATINGS INDUSTRY, PRESENTING THE RIGHT CHOICE FOR MAINTAINING, TRANSPORTING AND STORING YOUR BUSINESS' PAINTS AND VARNISHES, WHILE ALSO PROTECTING AGAINST EXTERNAL AGENTS AND TEMPERATURE CHANGES TO PRESERVE THEIR QUALITIES AND COMPOSITION

THIELMANN containers for the coatings industry also offer strong protection against corrosion, making them safe for industrial manufacturing processes and protecting your prized employees in addition to your coatings product. Our protection goes even further, thanks to our discharge systems, which ensure complete product emptying, preventing any kind of contamination, internal or external. A safe solution offering you assurance and peace of mind that is also 100% recyclable and environmentally friendly.

THIELMANN's high-grade AISI 304 / AISI 316 austenitic stainless steel storage solutions are highly customizable and available in a wide variety of products, dimensions and formats and extremely high real-time production capacity.

In any case, your partnership with THIELMANN gives you access to a global engineering team, a solution with a geometrically perfect design and, most important of all, special attention and adaptation to your specific needs.

### PAINT AND VARNISH INDUSTRY: ADVANTAGES OF AUSTENITIC STAINLESS STEEL

- Easily integrated into logistics, processing and storage operations
- Preserves paint and varnish without altering its characteristics
- Protects the product against sudden temperature changes
- Optimal storage
- Reusable and easy to clean
- Easy and safe maintenance

If you would like more information on the technical and manufacturing characteristics of our stainless steel containers for the paint and varnish industry, contact us and we will get in touch with you.

## INDUSTRY APPLICATIONS

### PRIMERS

The purpose of using a primer is to create a flawless foundation in which to begin paint works, it is therefore essential that the integrity of this key element is stored and transported in the correct manner. THIELMANN stainless steel containers provide unbeatable protection against sudden temperature changes and offer an impressive service lifetime of over 30 years.

### CLEAR COATS - LACQUERS, VARNISHES, ETC.

Clearcoats come in many forms such as, acrylic polyurethane, an "enamel", commonly used within the automotive industry, to lacquers and varnishes. The high-grade (AISI 304 /AISI 316) stainless steel construction of THIELMANN containers provides complete protection against UV light, and thanks to its durability and airtight insulation, and additionally offers resistance against fire.

### PRINTING INK

Some printing ink poses risks to the external environment due to its composition, therefore a safe containment solution is vital in order to protect the environment, and to also guarantee product integrity. THIELMANN containers are the perfect eco-friendly containment solution, thanks to their robust stainless steel construction, which delivers excellent product protection and a lifetime of service.

### HEAT RESISTANT PAINTS

Heat resistant coatings are relied upon to provide humidity protection and heat resistance, sometimes up to 750°C, it is therefore crucial that their integrity is safeguarded at all times, throughout the entire supply chain. THIELMANN stainless steel containers offer aseptic and durable container solutions which can be seamlessly integrated into existing logistics, processing and storage operations.

These are indicative applications you might use our containers for. The raw materials you work with will always be submitted for technical evaluation by our experts first. They will subsequently review and recommend the best containment solution to meet your needs based on residence time, temperature and concentration of your materials. Please contact us to check the suitability of your application.

### BASE COATS - ACRYLIC, POWDER, SOLID, METALLIC, ETC.

Basecoats within the automotive industry are generally classified into three main categories: solid paint, metallic paint and pearlescent paint. THIELMANN containers not only offer complete UV protection, but are also the optimal choice of vessel for preserving the quality of all types of paint, each with their own unique set of requirements.

### HARDENERS

Typically, hardeners are manufactured using polyurethane which presents various safety risks in relation to its storage and handling, such as, moisture sensitivity and the recommendation of complete avoidance of physical contact. THIELMANN containers are fully hermetic meaning that not only do they safeguard the hazardous hardeners, they also protect the operators who use them. Additionally, THIELMANN's cleaning services can ensure that your container is certified as silicone-free.

### THERMOPLASTIC PAINTS - ALSO KNOWN AS EPOXY PAINTS, INSULATING PAINTS

Thermoplastic paint, sometimes referred to as epoxy or insulating paint, is a powder-based paint, which requires special handling and care. THIELMANN hard-wearing stainless steel containers are the ideal vessels for the mixing, storing and transportation of these particular types of paints, which require airtight storage and protection against temperature changes.

### OTHER RELEVANT APPLICATIONS

- Building paints
- Industrial coatings and varnishes

## CERTIFIED QUALITY

### RIGOROUSLY TESTED AND FULLY ACCREDITED STAINLESS STEEL CONTAINER SOLUTIONS

Now, more than ever before it is key that your container solutions carry the relevant certifications or approvals proving that they have met specific safety and quality standards. Quality control is a key part of our business, and thanks to our global reach we are well-versed in the international expectations demanded from us by our customers to achieve these certification requirements. We have many years of experience in managing these quality assurance processes with clearly defined practices,

### ISO 9001

Internationally recognized quality management system standard.

### UN APPROVAL

Regulation for the transport of dangerous goods.

### ATEX

Explosives Atmospheres. Explosion prevention and protection.

### NATIONAL BOARD "R" ND "NB"

Certified for the repair and/or alteration of boilers, pressure vessels, and other pressure-retaining items.

### ISO 3834-2

Quality certified for fusion welding of metallic materials.

### UL APPROVALS

(Underwriters Laboratories) Approval for electrical equipment used in the US.

### ADR

Transport by road.

documentation and control procedures which confidently deliver exhaustively tested and fully accredited certified solutions, delivering quality that is second to none. THIELMANN containers can be adapted to comply with all international markings and regulations, offering total assurance and peace of mind that our solutions have met the rigorous standards to assure quality, safety, and protection of the environment and human life.

### WHG

Certified to act as a specialist company in compliance with Germany's Water Resource Act.

### CE APPROVAL

According to Pressure Vessel Directive 97/23/ECC for fluid categories 1 (dangerous) and 2 (non dangerous).

### ASME "U" AND "T"

Certified for the manufacture of pressure vessels for transport in the US.

### AD 2000

Certified for the AD 2000 pressure vessel code in Germany.

### CAS

Registry Number® for chemicals.

### DOT

US Vibration tests.

### RID

Transport by rail.

### IMDG

Transport by sea.

Our technical team will assist you to guarantee that your products are safely stored and transported from the point of origin to the destination fulfilling all the requirements that apply to them. Please contact us to request further information about any certification or approval needed.

## SMALL INDUSTRIAL CONTAINERS


### CE PRESSURE VESSEL FOR HIGH PURITY APPLICATIONS

CE STAINLESS STEEL PRESSURE VESSEL, DESIGNED FOR STATIONARY USE UNDER PRESSURE

With decades of experience in the production of stainless steel containers and drums, THIELMANN confidently designs and delivers customized products.

Our portable stainless steel pressure vessels are manufactured using only the highest quality stainless steel (AISI 304, up to AISI 316L) can be built in accordance with the requirements of CE.

If required, the surfaces of our pressure vessels and containers can be treated with electro polishing, in this process, metal is removed ion by ion from the surface of the object via electrolysis. As a result, the surface of the metal is microscopically featureless, with not even the smallest speck of a torn surface remaining, this therefore avoids the deposit of any material whatsoever.

  **VOLUME**  
From 5.7 to 120 Liters / 1.5 - 32 Gallons

### PORTABLE PRESSURE VESSEL TROLLEY

ALLOWING YOU TO MOVE PRESSURE VESSELS AROUND YOUR FACILITY WITH EASE

THIELMANN Portable Wheeled Pressure Vessel Trolleys provide a safe and convenient solution for the transport of pressure vessels around your facility with ease. They are constructed using high quality stainless steel, safeguarding your delicate cargo under pressure from UV light as well as external impurities and sudden temperature changes.

THIELMANN's state of the art manufacturing processes ensure a superbly built final product which is durable, easy to handle and simple to clean and maintain.

Our Portable Wheeled Pressure Vessel Trolleys are available in a standard capacity format of 5 gallons (19 liters) with a diameter of 216mm, however on request can be customized to any desired size or capacity format, and can also be purpose built to your specific requirements, along with a whole host of further personalization options.

   **VOLUME**  
19 - 100 Liters / 5 - 26 Gallons



### HAZARDOUS STORAGE & TRANSPORT VESSEL

UN APPROVED VESSEL SUITABLE FOR MANY APPLICATIONS, INCLUDING ASME APPROVED STORAGE, FILLING AND EMPTYING

THIELMANN UN Vessels for hazardous products are constructed using high quality stainless steel (AISI 304, up to AISI 316L) and are designed for the storage and transportation of dangerous goods, and other products commonly used within the Oil & Biofuel, Biotechnology, Chemical, Health & Beauty, Pharmaceutical, Hygiene, Semi-Conductor, Food, Pulp & Paper and Power Generation industries.

They are suitable for applications under pressure, including stationary filling and emptying, and as part of our extensive customization options, THIELMANN UN Approved Stainless Steel Vessels can be built in accordance with the requirements of CE or the ASME Boiler and Pressure Vessels code.

   **VOLUME**  
10 - 250 Liters / 2.6 - 66 Gallons



### MULTIPURPOSE VESSELS

FLEXIBLE CONTAINER SOLUTION AVAILABLE IN MANY DIFFERENT SIZING FORMATS

THIELMANN Multipurpose Vessels are suitable for products which do not require any specific certification. As such, this renders them the ideal versatile solution for customers who require a flexible high quality container suitable for a multitude of different applications.

The main advantage of the THIELMANN Multipurpose Vessel is the vast range of flexible customization options available. For example, they can be constructed using either AISI 304 or AISI 316L/316TI high quality stainless steel depending on your requirements, and are also available in many different capacity formats from 0.6 - 66 gallons (2.5-250 Liters). The different diameter sizing options range from 216mm - 550mm.

Due to their customizable nature you can create a truly unique high quality container solution for use within a myriad of industries.

  **VOLUME**  
2.5 - 250 Liters / 0.6 - 66 Gallons



# INTERMEDIATE BULK CONTAINERS - IBCS

## IBCS FOR LIQUIDS

### METERCUBE IBC CONTAINER

#### CUBIC IBC FOR LIQUIDS WITH OPTIMAL SPACE UTILIZATION

MeterCUBE Cubic Container features ideal cleaning geometry, residue-free emptying, is non-permeable and unbeatable service life. The MeterCUBE made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and lifespan. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel.

Cost-efficient, cubic IBC for liquids with optimal space optimization.



### CUBICAL CONTAINER LTP

#### CUBIC IBC FOR LIQUIDS

LTP cubic container features ideal cleaning geometry, residue-free emptying, is non-permeable and unbeatable service life. With great variety in sizes and non-wearing construction which allows continual re-use, the LTP Cubic Container made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and lifespan. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel.



### TPN CUBICAL IBC CONTAINER

#### CUBIC IBC FOR STORAGE AND TRANSPORT OF LIQUIDS WITH PROTECTING FRAME

The robust construction allows long-standing performance as a reusable container. With great variety in sizes and non-wearing construction which allows continual re-use, the TPN container made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and longevity. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel. This product is also available to rent.



### CYLINDRICAL CONTAINER IBCZN

#### CYLINDRICAL IBC FOR LIQUIDS

The robust construction allows long-standing performance as a reusable container. With great variety in sizes and non-wearing construction which allows continual re-use, the IBCzN container made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and lifespan. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel.



### CYLINDRICAL CONTAINER LATERAL OUTLET IBCZ-LO

#### CYLINDRICAL IBC FOR LIQUIDS WITH A HANDY CORNER OUTLET VALVE

The new THIELMANN cylindrical container is here offering an improved design along with an impressive 90kg weight reduction.

The optimized re-design of the IBCz-LO means that it is suitable for a multitude of applications, because it combines clean design, with the durability required to fulfill the demanding requirements that UN approved vessels for dangerous goods need to meet. Minimizes the overall weight without compromising on safety.



## ASC BEI ASEPTIC HEATABLE IBC CONTAINER

HEATABLE ASEPTIC CONTAINER FOR HIGHLY VISCOUS LIQUIDS WITH HEATING SYSTEM

ASC BEI product warmer features optimal product temperature, ideal cleaning geometry, residue-free emptying, and is non-permeable. The food container ASC BEI made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and longevity. Your requirements and our pioneer culture give rise to customised, innovative products made of stainless steel.



## ASC ASEPTIC IBC CONTAINER

ASEPTIC CONTAINER FOR LIQUIDS AND HIGHLY VISCOUS PRODUCTS

ASC Aseptic Container features ideal cleaning geometry, residue-free emptying, and is non-permeable. With great variety in sizes and non-wearing construction which allows continual re-use, the aseptic container ASC made of stainless steel meets all your requirements.

Our striving for quality and perfection ensures the highest possible degree of safety and lifespan. Your requirements and our pioneer culture give rise to customized, innovative products made of stainless steel. This product is also available to rent.



## PORTABLE TANKS

### T14 PORTABLE TANKS

THE HIGH PRESSURE SAFE CONTAINERS FOR THE TRANSPORT OF HAZARDOUS LIQUIDS

THIELMANN T14 portable tanks are made of high quality stainless steel with 6mm shell thickness. They are able to transport dangerous goods Class 3, 4.3, 6.1 y 8 via road, rail and sea.

Our small portable tanks are designed to comply with the requirements of most international compliance codes, including:

- IMDG
- RID / ADR
- T CFR49
- Customs Convention - TIR
- US DOT CFR49
- ISO standards

**VOLUME**  
450, 1100, 2500 Liters / 118. 290, 660 Gallons



### T22 PORTABLE TANKS

THE BEST FIT FOR THE SAFE TRANSPORT OF HAZARDOUS LIQUIDS UNDER HIGH PRESSURE

THIELMANN T22 Portable Tanks are constructed using high quality stainless steel (316L or 316Ti) and come equipped with a 10mm shell thickness.

They are purpose designed to meet most international requirements for transportation, including:

- IMDG/ADR
- US DOT CFR49
- Customs Convention - TIR
- ISO standards

THIELMANN T22 mobile containers are suitable for the transportation of dangerous goods as categorized in classes 4.2, 5.1, 6.1 and 8. by road, rail and sea.

**VOLUME**  
450, 1100, 2500 Liters / 118. 290, 660 Gallons





## TANK CONTAINER SOLUTIONS

### INORGANIC CHEMICAL STORAGE AND TRANSPORT TANK

SAFE STORAGE AND TRANSPORT OF TOXIC AND AGGRESSIVE CHEMICALS

THIELMANN provides safe storage and transport solutions for some of the most toxic, corrosive and aggressive liquid inorganic chemicals on the market. From liquid bromine to aggressive chlorine compounds, THIELMANN provides the right combination of materials and excellent workmanship to handle dangerous elements and compounds.

It has a capacity of 8,350-liter and is approved for the safe transport by road, rail, or sea. This 20-ft x 8-ft x 8-ft intermodal ISO tank container is manufactured from high grade, pressure vessel quality, steel, SA 516 GR 70N, and is lined with lead for corrosion resistance.

#### SUITS PRODUCTS

Liquid inorganic chemicals and compounds, highly corrosive liquids, toxic and aggressive chemicals, acids.



### SPECIALIST SOLUTIONS

FOR SPECIALIST APPLICATIONS WITH UNIQUE REQUIREMENTS, THIELMANN OFFERS A DESIGN AND MANUFACTURING SERVICE

Whether you need deep customization of an existing product or a new 'clean sheet' design, THIELMANN engineers can design, manufacture, test and certify solutions that 100 percent meet your needs.

Flexible enough to work with any design parameters, we can provide specialist solutions in single or double-walled designs within standard ISO or non-ISO frames. Materials can include carbon, stainless steel (V2A / V4A) in all grades, hastelloy, nickel and titanium.

For customers operating with acids and/or alkalis, we can produce tank container solutions with an inner lining, including ChemLine, Proco-EMAIL, Säkaphen; FA, FEP, Teflon along plastic coatings; special interior lacquers; lead linings; and glass-enamel coatings.



## POWDER HANDLING SYSTEMS

### BUTTERFLY VALVE SYSTEM

BUTTERFLY VALVE SYSTEMS ARE THE BEST OPTION FOR NON-HAZARDOUS, EASY FLOW MATERIALS WITHOUT HIGH CLEANLINESS REQUIREMENTS

For the easy transfer of non-hazardous bulk materials with good flowability between container and receiving unit, THIELMANN butterfly valves are suited to a range of applications and industries.

Our butterfly valve systems can be manually, semi-automatically or full-automatically operated, giving operators maximum flexibility for their powder bulk handling operations.

Principal areas of application for the butterfly valve systems are non-hazardous, easy to flow bulk materials for operations where high levels of cleanliness are not a primary concern.



### SPLIT BUTTERFLY VALVE SYSTEM

FOR OPERATIONS WHERE CROSS-CONTAMINATION AND THE CONTAINMENT OF DUST AND PARTICLES IS A CENTRAL CONCERN

THIELMANN split butterfly valve systems are designed to meet and exceed the rigorous requirements of industries that require the very highest quality solutions for the transition of materials between container and receiving unit, particularly where highly hazardous bulk materials are in use, or where the product needs to be protected from external agents, as in the Pharma industry.

For the safe and contamination-free transfer of products between container and receiving unit, THIELMANN split butterfly valves control dust and other materials for a safe operating environment, and ensure the integrity of the end product.

Principal areas of application are highly hazardous or delicate, easy to flow bulk materials where contamination levels must be kept to a minimum, and high cleanliness is paramount.





# SERVICES OVERVIEW

FROM MAINTENANCE TO REPAIRS AND CERTIFICATIONS, AND EVEN FINANCING SOLUTIONS, HERE AT THIELMANN WE WANT TO TAKE THE HARD WORK OUT OF MANAGING YOUR CONTAINER FLEET.



## SERVICES FOR IBCS

Your trusted global partner for cleaning, maintenance and testing.

Proper maintenance and repair of your container fleet is essential to its performance, safety, uptime, and longevity.

As a company specializing in comprehensive large IBC packaging services, you can receive all services, from a single source, leaving you to focus on your core business whilst ensuring a reliable and cost-effective supply chain of clean and functioning IBCs for your customers.

Take advantage of our professional services:

- Cleaning of reusable hazardous and non-hazardous goods containers (IBCs)
- Maintenance, revision and repair of all types of metal IBCs
- Approved inspection body for statutory tests
- On-time pick-up and delivery logistics

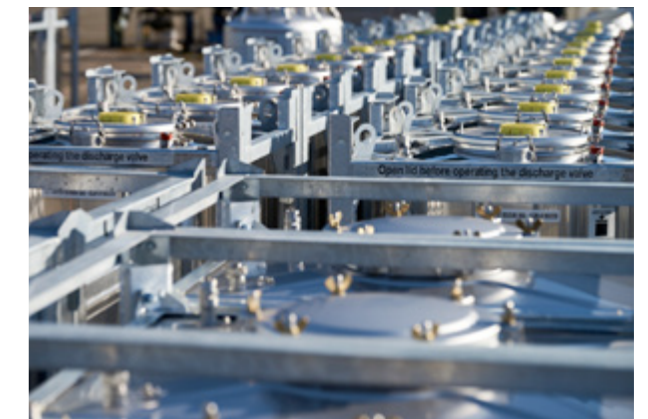


## SERVICES FOR TANK CONTAINERS

Our systems are operated in some of the harshest environments, frequently used by operators who may not be fully conversant with the system design. **Field service support, periodic upgrades, design and safety** case reviews form a critical element of THIELMANN's integrated service package.

We provide an exceptional standard in bespoke support solutions (for our own products as well as third party products) which include:

- Post design services
- Contractor logistics support
- Contracting for availability
- Operator and maintenance training (web-based training and virtual reality simulations)
- Spares
- Codification
- Obsolescence management
- Regeneration and upgrades



## IBC RENTALS

In reaction to a surge in market demand, THIELMANN has got your business covered with its range of standard IBCs, in stock, and now available to rent. Our offer includes renting and leasing from short to long-term, and sale/ lease back agreements.

- Flexibility: containers when and where needed, with the latest technology, allowing you to benefit from seasonal surges in demand and production.
- Quick delivery: the right container for the right product, delivered at short notice thanks to our large stock.
- Financial benefits by reserving valuable lines of credit for other growth opportunities.

Standard IBCs available for rent can be customized with different discharge valves depending on your connections, and labelled or customized with a sticker with your brand's name.



## BUYING AND SELLING SERVICES

Whether you need to dispose of your old containers or are considering buying second-hand ones, we are confident that our 360 services will have the solution for you:

- Purchasing of already-used containers from our customers, including kegs, IBC, and tank containers which we then, depending on the condition, either scrap or recondition and re-sell.
- We also offer to sell second-hand containers to our customers, which we ensure have met our own very high standards, in a wide range of sizes, specifications, and conditions.

## FINANCIAL SERVICES

THIELMANN offers customized financial solutions to meet your business objectives. Whether you're a small company or a large corporation, we have the resources and know-how to help your business to develop and expand.





# WHY THIELMANN?

Here at THIELMANN we endeavor to be the best at whatever we do, and with the reach of our global network we are fortunate that we can respond to change rapidly without causing disruption to our customers. Our commitment to the success of our customers combined with our unrivaled expertise render us the ideal partner for your container requirements. The THIELMANN team is a passionate and dynamic force which doesn't shy away from challenges - in fact we relish them!

Challenge us - and we'll confidently meet and exceed your expectations.



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