



PENAD PLASTIC CO.

Catalog

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PENAD PLASTIC CO.

About Us

Penad Plastic Co., established in 2005, specializes in industrial packaging and serves the petrochemical, food & drug, and refinery industries. Since expanding our operations to Iran's central region and Yazd province in 2007, we have been committed to customer satisfaction and industry demands. Certified by Bekum, we leverage state-of-the-art European machinery to produce up to 650,000 drums annually.

We Focus On Serving The:

- ✓ Petrochemical
- ✓ Food & Drug
- ✓ Refinery Industries

20
Years
Experience

Why Plastic?

- **Eco-Friendly:** Less energy to produce, recyclable material.
- **Durable:** Long lifespan reduces waste.
- **Lightweight:** Easier handling and lower transport costs.
- **Corrosion Resistant:** Ideal for harsh conditions.
- **Cost-Effective:** Affordable for all scales of business.

QUALITY IS
OUR
REPUTATION



PLD-13000

General Specifications

220 Liter tight head drums

Colors:



Application:

- ✓ Chemicals
- ✓ Solvents
- ✓ Pharmaceuticals
- ✓ Food ingredients
- ✓ Oils and lubricants



Product code	Tolerance (gr)	Body thickness (mm)
PLD-13000	50	3.5
Dimensions	Tolerance	
Height (mm)	930	5
Diameter (mm)	584	5
Applications		
Suitable for middle-hazard substances and commercial oils.		
Seal & Plug	Material	Color
Plug	PP	White & Yellow
Seal	PP, PE	White & Yellow
Seal	Metal	White
Tests		
leakproof test		0.2 bar
drop test		0.8 - 1.2 m
hydrostatic pressure tests		2.9 bar

PLD-9000

General Specifications

220 Liter steel grade tight head drums

Colors:



Application:

- ✓ All of the applications of PLD -13000
- ✓ Fuel, including petrol and diesel
- ✓ Corrosive liquids
- ✓ Hazardous goods & waste



Product code	Tolerance (gr)	Body thickness (mm)
PLD-9000	50	3.5
Dimensions	Tolerance	
Height (mm)	930	5
Diameter (mm)	584	5
Applications		
Suitable for high-hazard substances and industrial oils used in extreme applications.		
Seal & Plug	Material	Color
Plug	PP	White & Yellow
Seal	PP, PE	White & Yellow
Seal	Metal	White
Plug (SPL)	PP	Black
Tests		
leakproof test		0.3 bar
drop test		0.8 - 1.5 m
hydrostatic pressure tests		3.9 bar

POT-13000

General Specifications

220 Liter open head drums

Colors:



Application:

- ✓ High-viscosity materials (e.g., pastes)
- ✓ Chemicals
- ✓ Solvents
- ✓ Pharmaceuticals
- ✓ Grains
- ✓ Food ingredients



Product code	Tolerance (gr)	Body thickness (mm)
POT-13000	50	3.5
Dimensions	mm	Tolerance
Height without lid (mm)	945	5
Height with lid (mm)	955	5
Diameter (mm)	584	5
Applications		
Ideal for storing assorted liquids, including chemicals and food products.		
Seal & Plug	Material	Color
Open top door	PE	Black
Plug	PP	White & Yellow
Seal	PP, PE	White & Yellow
Seal	Metal	White
Capacity		
Nominal	220 liter (58 gallon)	
Actual	208 liter (55 gallon)	
Minimum distance of liquid material level from the top		8.5 cm

POT-9000

General Specifications

220 Liter open head drums

Colors:



Application:

- ✓ All of the applications of POT-13000
- ✓ Lubricants and grease
- ✓ Corrosive liquids
- ✓ Hazardous goods & waste



Product code	Tolerance (gr)	Body thickness (mm)
POT-9000	50	3.5
Dimensions	mm	Tolerance
Height without lid (mm)	945	5
Height with lid (mm)	955	5
Diameter (mm)	584	5
Applications		
Ideal for UV-sensitive contents, providing complete UV protection		
Seal & Plug	Material	Color
Open top door	PE	Black
Plug	PP	White & Yellow
Seal	PP, PE	White & Yellow
Seal	Metal	White
Plug (SPL)	PP	Black
Capacity		
Nominal	220 liter (58 gallon)	
Actual	208 liter (55 gallon)	
Minimum distance of liquid material level from the top	8.5 cm	

Security

Automatic Lock

Our advanced seal cap system with an **AUTOMATIC LOCK** ensures the highest security by preventing unauthorized access, tampering, or contamination. It's engineered to be tamper-proof, making it impossible to remove the seal without visible evidence.

- ✓ 0.0% Risk of Tampering or fraud
- ✓ Laser Encrypted Security
- ✓ 100% Protection & Security



Laser Encrypted

- Our drums meet stringent United Nations standards for safety and durability.
- Designed to resist harsh chemicals, ensuring the integrity of stored materials.
- Regular testing with production samples to guarantee consistent quality.



NO THEFT! MAXIMUM SAFETY

Ensure your products are protected under the highest security standards with Penad Plastic Co.'s reliable solutions.



Tracing

Real-time order management at your fingertips

Empower your decision-making with Tracing, our advanced order management tool designed to enhance transparency and efficiency in your supply chain.

In today's fast-paced market, staying informed with real-time data is more than a convenience it's a necessity. Tracing by Penad Plastic brings you a cutting-edge web application that transforms how you track, manage, and interact with your orders. From the warehouse to your doorstep, experience unparalleled visibility and control.

Key Features:

Real-Time Tracking: Monitor your orders as they move, ensuring timely updates and adjustments.

Direct Communication and Feedback: Instantly connect with delivery drivers and customer service, and quickly submit feedback that reaches sales and technical staff immediately.

Detailed Order Insights: Access detailed analytics on order timings, handling, and history to streamline your operations.

User-Friendly and Mobile-Compatible: Navigate effortlessly through our clean, intuitive interface designed for users of all skill levels, and keep track of your orders on-the-go with our fully responsive mobile design.



Optimum protection of bungs and labels

The bungs and labels are ideally protected during transport and stacking due to the higher upper ring.



Safety & Originality

The task of our PE drums is the safe transport of filling products while at the same time protecting the original quality until the product is needed. To achieve this, we use the highest safety standards and intelligent product and process solutions.

UV Resistance



- ✓ Shielding your products from UVA and UVB damage.
- ✓ Unmatched sealing technology for zero leaks.

UV Resistance

Experience the pinnacle of product protection with our UV-resistant drums, designed to shield your contents from harmful UVA and UVB rays. Our SPL Plug ensures complete UV protection, maintaining the integrity of your products.

- ✓ 100% UV Blockage
- ✓ SPL Seal Integrity
- ✓ Extended Content Durability

- **Superior UV Shielding:** Protects contents from degrading UV rays.
- **SPL Advantage:** Ensures complete containment with no leakage.
- **Enhanced Longevity:** Extends the life of contents and drum.



Cap Comparison

Types of sealing caps in Penad Plastic drums:

Open Head Drums

- **Plastic Security Pins:** Break upon opening for tamper evidence.
- **Steel Seal Caps:** Available with or without printing, robust and durable.
- **Colorful Plastic Seal Caps:** Offered in various colors, with or without printing, to suit your branding requirements.
- **Automatic Lock System:** Ensures the integrity of contents with a secure seal.
- **Traceable:** Each automatic seal cap has a unique serial number for easy tracking.



Tight Head Drums

- **Automatic Lock:** Provides a secure, tamper-proof seal.
- **Steel Seal Caps:** Durable and available in multiple sizes and colors, with or without printing.
- **Versatile Plastic Seal Caps:** Available in a range of colors, customizable with or without printing.
- **Secure and Traceable:** Each cap is uniquely numbered, enhancing security and traceability.
- **Various Printing Options:** Customize your drums with a wide range of printing options to suit your design needs.



Cap Seal



Product specification

Product description:

EN Buttress plug

Product type:

2 buttress threaded plugs for internally threaded container suitable for UN certification with appropriate container according to EN ISO 20848-3

Product and materials:

- **Cap Security:** The plug is secured by the cap, ensuring it cannot be removed without breaking, providing a true seal.
- **Hygiene and Safety:** Constructed from hygienic and non-corrosive materials, with FOODCERT approval, making it ideal for food products.
- **Ease of Use:** Opens effortlessly with a pull knob, no tools necessary.
- **Precision Fit:** Features a self-centering system for automatic and accurate fitting.

ENVIRONMENT MATTERS

Why it Matters?

Choosing us means partnering in progress toward more sustainable production and a healthier planet.





Sealing Solutions

Plug types



O-ring



Venting plug



Simple plug



SPL plug

Product and materials

Description	Material	Weight
plug	PP	24 gr
Product description	Option description	Option material
6N Buttress plug EPDM	Gasket	EPDM
4N Buttress plug EPDM	Gasket	EPDM
All material are Compatible for food use.		
Performance		
Venting rates		50 mbar - 1000 cc/min 100 mbar - 2500 cc/min
Storage conditions		
Store in a clean, dry area away from UV-light, smell and high temperature variations.		
Plug size		
S56x4, S70x6		

At **Penad Plastic Co.**, every plug is a pact with perfection. Our meticulously engineered plug types ensure the contents of our drums are sealed with unmatched precision and reliability.

- **O-Ring:** An elastomeric seal known for its efficient sealing capacity, especially for volatile substances where leakage is a non-negotiable.
- **Venting Plug:** Designed to maintain the balance of internal and external pressures, this plug is vital for substances that expand or contract due to temperature changes.
- **Simple Plug:** For straightforward applications, this plug offers a no-frills, secure seal that's easy to apply and reliable in its simplicity.

We offer a specialized range of sealing solutions, ensuring each seal meets your exacting standards.



Storage

60%

Less space than
steel drums,
optimizing storage
efficiency

Tailored Storage Support

Our customized loading plans and securement strategies are designed to meet your specific needs, ensuring safe and efficient handling of your Penad Plastic drums.

Flexible Delivery Options

- Truck trailers
- Swap trailers



Ensuring safety in hazardous material handling

We specialize in the safe storage and transport of hazardous substances, including corrosive and toxic materials, using specially designed packaging to maintain the highest safety standards across your supply chain.



The following security options are available for palletized drums:



Stretch film



Plastic tape

Discharge

Efficient and Complete Discharge

Penad Plastic barrels are engineered for 100% discharge, ensuring no residual waste a critical advantage over barrels with less efficient designs that may retain contents due to their shape.

100%

- ✓ 100% Discharge
- ✓ Quick Discharge
- ✓ Easy to Clean



100%



50%



0%

Maximize Product Utilization

Our drums are engineered for minimal waste, ensuring complete and efficient emptying. The design includes an optimally positioned drainage hole, allowing for quick and thorough discharge. This feature ensures every last drop is used, supporting both economic and environmental benefits.

Quick and Easy Discharge

Enjoy the benefits of a rapid discharge system that saves time and labor. Our drums are crafted for ease of maintenance, with a design that allows for straightforward cleaning, promoting durability and hygiene. Ideal for industries requiring meticulous standards in handling liquids and granulates.

Weather-resistant drainage system

Our drums feature a built-in drainage system that efficiently channels out rainwater, preventing accumulation and safeguarding contents.



Draining Hole

Gauging Excellence

Precision at Every Level

Our barrels are integrated with a state-of-the-art gauging system designed to provide exact measurements of contents through reliable external indicators. This precise method ensures efficient inventory management and operational control without the need to view the contents directly.

160 liter



Streamlined Operations:

Accurate Measurements: Quickly assess content levels with marked external indicators, ensuring accuracy and consistency.

Ease of Use: Our intuitive gauging marks allow for hassle-free monitoring, making it easy to manage content levels effectively.

Enhanced Safety: By accurately monitoring fill levels, our barrels help prevent overfilling and ensure safe handling conditions.

Resource Management: Optimize the use of materials with precise gauging, reducing waste and controlling costs.

Optimal for Various Industries:

Ideal for sectors requiring stringent volume control, such as chemicals, pharmaceuticals, and food services. Our barrels help maintain compliance with industry regulations and safety standards, providing a dependable solution for managing liquids and other materials.



Resilient By Design

Superior impact resistance

Our barrels excel in durability, recovering their shape after impacts that would deform other barrels. This resilience ensures they remain functional and maintain their appearance, even under rough conditions.

We create products
that **improve your**
business



Flexible and Tough

Our barrels flex upon impact, preventing damage and protecting contents. This feature is essential in environments where barrels are frequently moved or dropped.

Cost-Effective Durability

Invest in barrels that reduce replacement costs. Their ability to withstand tough treatment extends their lifespan and ensures ongoing savings.

Ideal for Demanding Uses

Perfect for sectors like logistics, manufacturing, and chemicals, where reliability and durability are crucial.

- ✓ Bounce-Back Flexibility
- ✓ Durability in Handling
- ✓ Cost-Efficiency
- ✓ Maintained Integrity

Printing

Quality

Regular audits and monitoring by external experts are backed up by permanent process and laboratory tests in our own and collaborative testing labs to guarantee permanent quality control.

Unique Appearance

Drum body and top printing

Penad Plastic Co. values the unique appearance of drums according to costumers' products a lot, while it is an important issue in global trade relations. In this regard and by using world-leading and advanced printing methods, we provide drums with single or multi-colored prints according to customer design.

Seal caps printing

For adding more security and uniqueness to the drums, Penad Plastic Co. suggests vast printing options using different methods for our automatic lock seal caps, as well as plastic and metallic seals. (Additional information is provided on page 10.)

More security

Superior security and uniqueness with automatic lock seal caps, offering reliable protection and customization options.





Environment

With the recent integration of a pioneering solar company into our fold, we are setting new industry standards for sustainability and use of green energy. Our production processes are transitioning to harness solar energy, reducing our carbon footprint and underlining our commitment to the planet.



- **Reduced Carbon Footprint:** Our switch to solar dramatically cuts down CO2 emissions, aligning our operations with global sustainability goals.
- **Energy Efficient:** Solar power enhances our energy efficiency, reducing wastage.
- **Long-term Commitment:** We're not just using solar power; we're investing in it, ensuring a greener future with every product made.



Harnessing Solar Power

Penad Plastic Co., is pioneering with solar energy to fuel all production processes, setting a new standard for environmental responsibility in the industry.

Why It Matters:

Choosing us means partnering in progress toward more sustainable production and a healthier planet.



Advantages of Plastic Over Metal

NAS-Compliant Excellence

Ensure optimal protection for your sensitive materials with our premium drums.

- ✓ Peak Safety
- ✓ Absolute Purity
- ✓ Reliable Durability



Weight Efficiency

Lighter Loads:

Our drums are significantly lighter than metal, reducing transportation costs and easing handling.

Fuel Economy:

Lower weight translates into less fuel consumption during transport, benefiting your budget and the environment.

Durability and Safety:

Corrosion Resistance, Chemical Stability, Lower Maintenance, Affordability

Recyclable Materials:

Many plastic drums are made from recyclable materials, promoting a circular economy.



Food-Grade Quality: Safe Storage Solutions

Certified Safety:

Compliance with Regulations: We meet strict international standards, ensuring that they are safe for food storage and transportation.

Non-Toxic Materials: Our drums are made from high-quality materials that prevent contamination and preserve the purity of food products.

Designed for the Food Industry:

- ✓ Hygienic Design
- ✓ Barrier Protection

Durable and Reliable:

Long-Lasting: The robust construction of our drums ensures durability and reliability, even under rigorous transport and storage conditions.

Cost-Efficient: Reduce your operational costs with our reusable and easy-to-handle food-grade containers.



Clean cert.

Packaging is a key quality factor in an increasing number of industries. Penad Plastic cleancert is the new packaging standard for applications where safety and technical cleanliness play a key role. Compliance with the highest product purity and complete avoidance of contamination starts with the materials that are used and must be firmly anchored as a principle along the entire production chain. The drums are individually packed and stored in covered areas (optional) prior to shipping

Clean cert is the highest cleanliness and safety standard for product and process that Penad Plastic offers:

- Finished packaging has the highest technical cleanliness
- Full traceability back to batch and process level
- Material of components that come into contact with the filling good free of silicones
- The drums are individually packed and stored in covered areas (optional) prior to shipping



Material Reaction

Non-migrating materials

Zero Migration:

Our drums guarantee no transfer of substances, ensuring the purity of your products.

Safety Certified:

Every drum is crafted from materials proven to prevent migration, meeting rigorous safety standards.

Quality Assured:

With us, your contents are contained safely. We prioritize the integrity of your products with every drum we make.

Innovative designs

Barrier Layers:

Advanced design techniques include barrier layers that further reduce the potential for migration.

Continuous Testing:

We regularly test our products to comply with international safety standards, reinforcing our commitment to safety.





ZERO!

Ensure superior protection with non-migrating drums, designed to maintain material integrity and prevent any reactions.

Easy Use



Streamlined Efficiency in Handling: Our drums are engineered for effortless handling, offering benefits that streamline workflow and enhance safety.

Optimized for Movement: Our drums' low weight makes them easy to maneuver, whether moving across the warehouse or loading for transport.

Designed for the Worker: With ergonomics in mind, the drums reduce strain on personnel, promoting a safer and more productive work environment.

Effortless Handling, Industry-Wide:

- **Universal Fit:** Ready for forklifts or hand trucks, our drums move smoothly in any setting.
- **Lighter Loads:** Enhanced worker ease and safety with every lift.
- **Safe and Satisfied:** Less strain, more gain for industry professionals.

55% lighter barrels!

Saving cost with lower carbon footprint!

55% Lighter Barrels!

Our drums are engineered for effortless handling, offering benefits that streamline workflow and enhance safety.



Key Attributes



Global standard for the transport of hazardous goods (UN standard)



Resistant to strong acids with high corrosion



Resistant to flammables and solvents



High impact capability



Long term warranty



Prevent deformation in pressure changing



Ability to hold toxic and dangerous chemicals



Traceability of each drum



High UV resistance

300 kg

Designed to tolerate stresses up to 300 kg during handling and storage.



**High Tolerance
To Internal
Pressure**

Optimal drum design to minimize transportation and warehousing costs.

- ✓ Equipped with automatic locks and seals to ensure the drum plugs remain secure.
- ✓ Ideal for materials with varying vapor pressures, equipped with valves to balance internal and external pressures.
- ✓ Requires no interior or exterior paint or coating.
- ✓ Capability of printing and imprinting on plastic seal and also printing on metal seal.
- ✓ Lightweight yet highly durable.
- ✓ Highly resistant to chemical-induced deformation.
- ✓ Possibility of printing the logo on the drum surface.

Patent & Certificate

Certificate



Patent



For the latest version of any certificate, scan the QR code on this page.



PENAD PLASTIC CO.

Quality is our reputation

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