



**metalco-alupack**

The ultimate protection for  
**Active Pharmaceuticals  
Ingredients**



# Protect your valuable sterile API with a proper and RELIABLE primary packaging

## Specific Surface treatment

Seamless aluminium cans can be supplied pickled and washed (ultra-clean washing), or anodised for pharmaceuticals sterile powders as APIs

## High Resistance

Seamless aluminium cans are resistant against shocks, perforations, cuts, cold and heat. They also give absolute protection to light and gas permeation.

## Quality Standards & Certifications

Metalco is certified ISO 9001:2008, ISO 14001:2004 and EMAS

## Quality control

100% on-line inspection of dimensions and surface treatment

## Easy sterilisation/Depyrogenation

- Dry heat sterilisation allows in one single step the sterilisation and depyrogenation of the cans.
- Autoclaving can also be used for sterilisation alone. When tested before dispatch, our cans have been found to be pyrogen free

## Guaranteed cleanliness and surface treatment

- Anodization, washing and packing are completely automated
- Final washing and packing is lead in ISO7 clean room
- Surface treatment features are tracked for each container

## Batch Unit traceability

Batch and traceability are ensured through ink-jet printing or engraving on the containers

# Aluminium recycling and Energy savings

Aluminum is the most recyclable of all materials. Nearly 75 percent of all aluminum produced in the world is still in use today. Aluminum can be recycled directly back into itself over and over again in a true closed loop.

Recycling aluminium uses about 5% of the energy required to create aluminium from bauxite.



# ALUminium PACKaging in Pharma

Aluminium canisters are commonly used in pharma sector for:

- $\beta$ -lactam Antibiotics
- Steroid Hormones
- non  $\beta$ -lactam Antibiotics
- Anticancers

...and many other sterile APIs.

Metalco-Alupack provides close regulatory support on aluminium primary packaging.

## EASY TO USE CLOSING SYSTEMS

Metalco-Alupack provides accessories in addition to its containers range. Several closing systems and accessories will bring smooth and reliable use for your confort and safety.



135 mm opening with push-in chlorobutyl plug, (reinforcing disk) and aluminium sealing cap



101 mm opening with push-in chlorobutyl plug and aluminium sealing cap



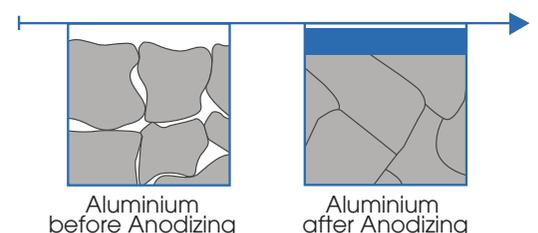
220 mm opening with aluminium lid, nitrile ring gasket and clamping ring



23 mm opening small bottles for sampling and stability tests

## ANODISED PRIMARY PACKAGING

Anodizing is an electrochemical process that converts the Aluminium surface into a durable, corrosion-resistant, anodic oxide finish. The aluminum oxide is not applied to the surface like paint or plating, but is fully integrated with the underlying aluminum substrate, so it cannot chip or peel.



# Drug Master File

Metalco-Alupack has registered a Type III (packaging) DMF with the USFDA which is updated and enriched annually.

The European Pharmacopeia considers pure aluminium (min.99,5%) containers as safe and neutral for contact with Food and Drugs when produced and used according to GMP.

Metalco-Alupack guarantees a level of cleanliness according to the U.S.FDA and Ph.Eur.

# Accessories and tools for user friendly solutions

## Manual closing device

AISI316L stainless steel closing tool allows a high crimping efficiency joined to an entrusting reliability of sealing. Easy to sterilize.



## Stopper insert/removal tool

Easy to use device allows to remove and insert the chlorobutyl stopper avoiding any contact with the can's opening part drastically reducing any risk of contamination. Easy to sterilize.



## Semi-automatic closing machine

For filling lines Metalco has developed a new concept semi-automatic machine which hermetically crimp and seals the canister.





**Metalco products** are manufactured according to the strictest american and european specifications and meet the most demanding quality standards

Bureau  
Veritas  
ISO 14001

ISO 14001  
BUREAU VERITAS  
Certification



Bureau  
Veritas  
ISO 9001

ISO 9001  
BUREAU VERITAS  
Certification



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