

# **Tournaire** and **APIs:** The ultimate protection for your active ingredients



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## **Tournaire** Packaging: Major Partner for API containers since the 1950s

From streptomycin to last generations of cephalosporins, Tournaire has always provided state of the art containers for sterile or non sterile APIs. Our family company closely supports its clients with anticipation of new regulations (DMF), and mastership of modern techniques in the frame of the most demanding quality referentials.

### **Key figures:**

- **175** years of experience.
- **230** staff in France.
- A **20000** m<sup>2</sup> plant.
- **5000** tons of materials transformed
- **45** millions € turnover.
- **65%** Export worldwide through an international network of agents and distributors.
- **2** manufacturing sites.

## **Tournaire** Equipment:



Tournaire Equipment Division designs and manufactures production units for pharmaceuticals, flavors & fragrances and fine chemicals in the field of extraction, evaporation, rectification, short path distillation, filtration, drying

and distillation. Its engineering department submits the technical files for their working and validation. Tournaire Equipment provides from pilot units to industrial plants compliant with ATEX and DESP rules.



# innovation

perfect innocuousness



## **Aluminium** for stability and protection

### **Easy Sterilisation / Depyrogenation**

Dry heat sterilisation allows in one single step the sterilisation AND depyrogenation of the container. Furthermore, it eliminates the presence of moisture. Autoclaving can also be used for sterilisation alone. When tested before despatch, our containers have been found to be pyrogen free.



Depyrogenation

### **High resistance**

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

### **Safe and reliable protection**

The European Pharmacopeia considers pure (min 99.5%) aluminium containers as safe and neutral for contact with Food and Drugs when produced and used according to GMP (Good manufacturing Practice).

### **Specific Surface treatment**

Scouring and anodisation according to an approved process give a clean, smooth and resistant surface. Tournaire has worked closely with major pharmaceutical users over the years to standardise the best surface treatment, described in our DMF.



Washing



# Tournaire bottles:

Full range with type III DMF  
to help your registration

# design

## Efficient design for user friendly solution



VOL.(L)	802	835	Ø 220
2,5	✓	✓	-
5,5 / 6,25	✓	✓	-
12,5	✓	-	✓
20	✓	✓	-
25	✓	-	✓
28,5 / 29,5	✓	✓	-
30 / 32	✓	-	✓

### Seamless container

Each container is made of one disc of pure aluminium. Its whole surface is continuous, smooth and has no recesses nor seams.

### Optimised tightness

The calibration of the neck together with the elasticity of the rubber plug provides an hermetic seal, even with extreme variation of pressure.



Filling

### Easy sealing and opening

Different closure systems are available, which provide user friendly sealing and opening as well as efficient tamper evident features.

### Geometrical features



large opening

half rolled edge

rounded shape





# accessories

**Tournaire** works for you by providing close regulatory support, but also accessories in addition to its container range. Various validated closing systems and accessories will bring smooth and reliable use for your comfort and safety.

## Easy to use closing systems

-102mm opening with push-in chlorobutyl plug and aluminium cap for sealing.



-135 mm opening with push-in chlorobutyl plug reinforced by an aluminium disc and aluminium cap for sealing.



-220mm opening with aluminium lid, nitrile ring wad and clamping ring.



## Sealing systems



2nd generation stainless steel crimping tool provides reinforced crimping efficiency and still higher reliability of sealing. It is easy to sterilise and does not require maintenance nor adjustment. An automation of this manual tool can be studied upon request.

## Cap Opener



Stainless steel cap opener allows to smoothly open the aluminium cap without touching it, thus avoiding the risk of contamination or cutting the glove.

## Tool for Inserting/ removing the plug



Connected with reduced vacuum source, the stainless steel removal/insertion tool allows to insert/remove the chlorobutyl plug easily (no rubbing nor effort) and avoids any contact with the plug (reduces risk of contamination).

## Sample bottles

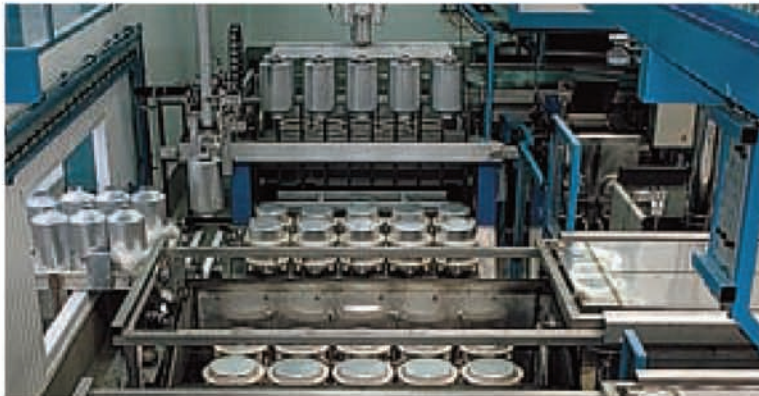


Small containers and plugs made of the same material for sampling and stability tests: from 30cc to 275cc for 10 g to 100 g sampling.



# safe

## Your reliable partner for APIs for 60 years



### **Reliable supply chain**

Raw material suppliers are regularly evaluated and provide a certificate of analysis for each delivery. They also must be able to accurately trace their production process.



### **Quality standards**

Certified ISO 9001: 2008 and ISO 14001: 2004, Tournaire has passed many audits at GMP standards. Containers are also approved for the transportation of hazardous goods according to UN regulations.



### **Quality control**

100% on-line inspection of dimensions and surface treatment.

### **Guaranteed cleanliness and surface treatment**

During washing and anodisation, the quality of ingredients and parameters is controlled by computer. The handling of containers is also fully automated. During several years, evaluation of the efficiency of the washing process has been performed and a log 3 (1/1000) efficiency factor has been demonstrated.

### **Packing and palletisation**

Each container is packed in a tight bag immediately after washing and quality control. Palletisation includes deep trays and PE film for the protection of the containers. Specific outer packing solution can be proposed for severe logistic conditions.

### **Batch and Unit traceability**

Batch and unit traceability are ensured through bar codes labels and ink jet printing or engraving on the containers.

## **Drug Master File**

Tournaire has registered since 2000 a Type III (packaging) DMF with the US FDA which is updated and enriched annually.

# Tournaire: Certified quality

Tournaire products  
meet today's most  
demanding quality standards  
and are manufactured in  
accordance with the strictest  
specifications.



Certification 14001  
Certification 9001



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