

safe

Your reliable partner for APIs
packaging **for over 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: 2015 and ISO 14001: 2018, 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 components 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.

TOURNAIRE: Certified quality

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



Photos : Jean-Jacques L'Heritier - Getty Images - Fabrice - 02/2018

stability

PHARMACEUTICALS

THE ULTIMATE PROTECTION
FOR YOUR ACTIVE PHARMACEUTICAL
INGREDIENTS AND EXCIPIENTS



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DRUG MASTER FILE

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

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in f t o

TOURNAIRE

Major Partner for packaging APIs 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. Tournaire 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:

- Over 190 years of experience.
- 300 staff in France.
- 120 000 m² of productive and sorage area worldwide.
- 5500 tons of materials transformed
- Over 90 millions € turnover.
- 65% Export worldwide through an international network of agents and distributors.
- 2 manufacturing sites.

Pure Aluminium: Tournaire original, the choice for supporting sustainability.

Tournaire has chosen pure aluminium because it is light, gaz and UV tight, neutral and rust free. It is also the most widespread metal on earth and it is infinitely and easily recyclable: recycling one ton of aluminium saves five tons of bauxite. Nearly 75 percent of all aluminium ever produced is still in use today making aluminium one of the most sustainable packaging materials.



innovation

perfect innocuousness



Aluminium for stability and protection

Easy sterilisation / depyrogenation

Dry Heat Sterilisation (DHS) allows in one single step the sterilisation and depyrogenation of the container without residual moisture. Autoclaving can also be used for sterilisation alone. When tested before despatch, Tournaire 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.



Washing

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 its DMF.

TOURNAIRE bottles: Full range with type III DMF to help your registration



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

design

Efficient design for user friendly solution

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.

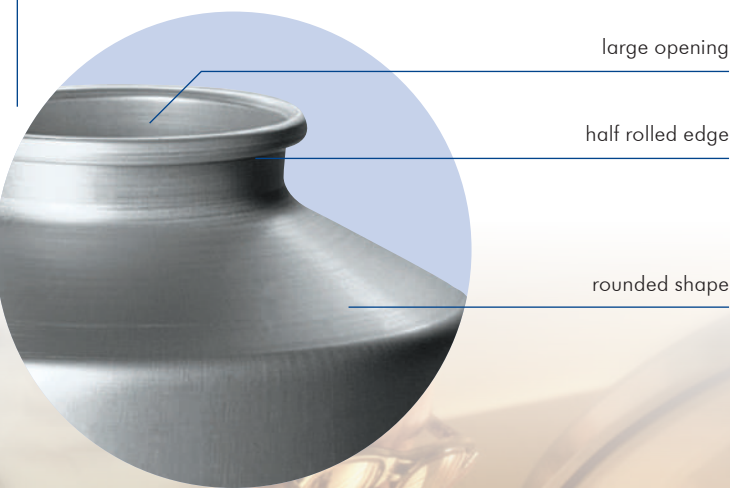


Filling

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



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 provide 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.



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.

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



Cap opener



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

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



Sample bottles



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

Tool for inserting/removing the plug



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