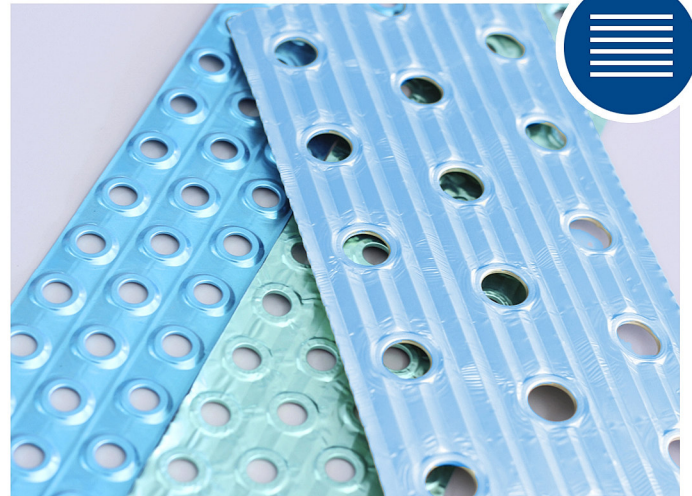


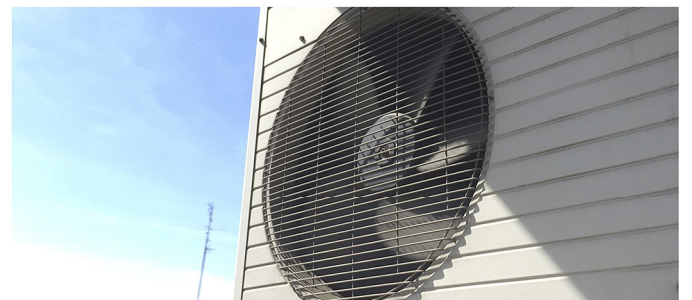
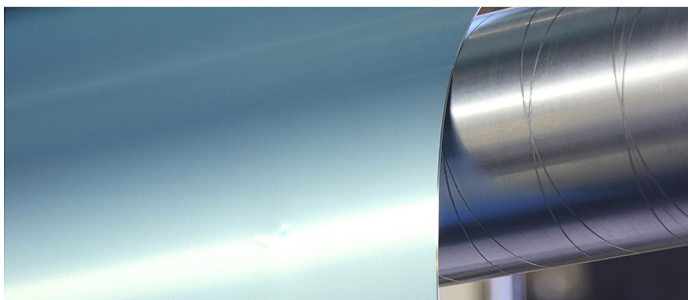
**waterfin®** is the designation of ALUCOAT for the lacquered foil intended to be used for the production of fins for heat exchangers with hydrophilic properties. The lacquered aluminium coils **waterfin®** makes the condensated water drop to become a layer avoiding the feasibility of ice bridges. It allows to produce smaller equipments.

Its mains advantages are:

- Very good finishing, high thermal conductivity, good drawability and low density.
- Collars height up to 12 mm could be obtained (depending of the thickness and haracteristics of metal).
- Studies performed by specialized independent organisms demonstrate that **waterfin®** does not favor the growth of micro-organisms.
- waterfin®** with high hydrophilic properties it is the best choosing for standard environments.



•It is also possible to incorporate our pre-treatment systems **Alucoat® prelac** that improve the protection against corrosion and the lacquer adherence over the aluminium surface.



## Range of products

There are two kinds of lacquered aluminium coils of **waterfin®**:

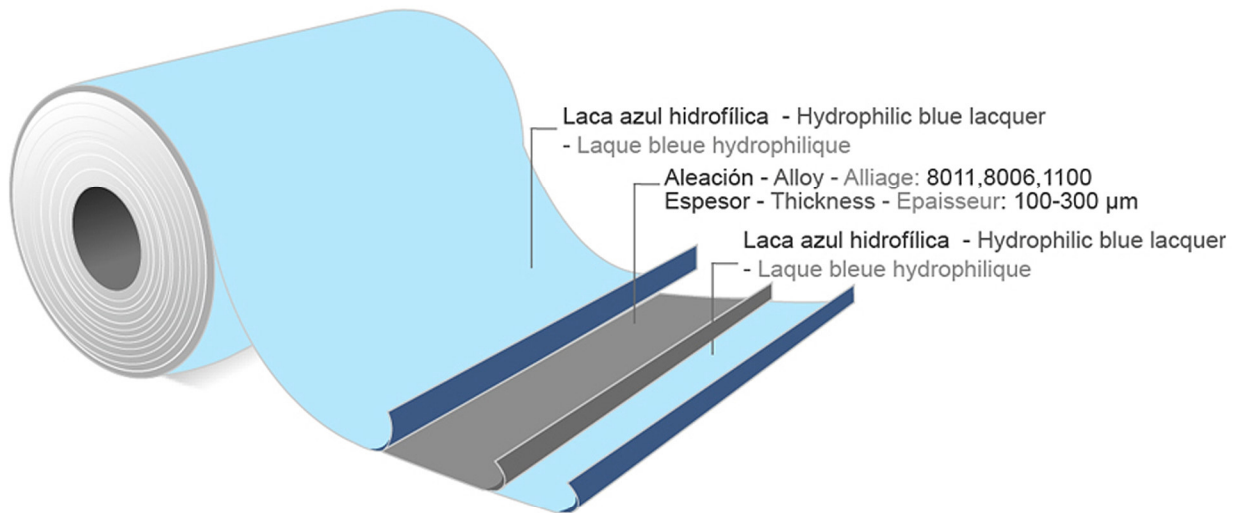
- waterfin® 100**: It covers with a blue lacquer with a high level of hydrophilic properties. This is the best choice for standard environments.
- waterfin® 700**: It covers with a double layer of blue hydrophilic lacquer. For that reason makes this product ideal for contaminated industrial environments.

## Applications

ALUCOAT supplies its product **waterfin®** in reels of wide until 1.600 mm, with core of steel or carton of up to 500 mm and maximum weight of 6 tonnes. It can be used for the development of the following applications:

- Heat exchangers for food industry.
- Heating and air conditioning systems for buildings.
- Heat exchangers for cars, ships and airplanes.

## Composition:



### Product description:

Aluminium foil from 100 to 300 µm with silica based or silica free lacquer for both sides.

### Coating properties:

PROPERTY	METHOD	waterfin® 100	waterfin® 700
Nature		Hydrophilic	Hydrophilic Silica free
Colors		Blue	Blue
Wettability	UNE EN 546-4	A-B	A-B
Adherence	ASTM D-3359	OK	OK
Bending	ECCA 7 (0 ≤ T BEND ≤ 1)	OK	OK
Drawing	ECCA T6-ISO 1520 (5mm)	OK	OK
Curing	Resistance to MEK	> 10 d.f.	> 30 d.f.
Heat Resistance	200°C/5 min.	OK	OK
	190°C/30 min.	OK	OK
Solvent Resistance	TRICHLOROETHYLENE (85°C/5 min.)	Weight loss < 1%	Weight loss < 1%
	PERCHLOROETHYLENE (120°C/30 min.)	Weight loss < 1%	Weight loss < 1%
Corrosion Resistance (Neutral Salt Spray)	ASTM B117 (NaCl 5%/35°C)	Up to 300 h	1000 h
Contact angle (distilled water)	Initial	< 10°	< 10°

### Recommended alloys:

EN AW 8011A, EN AW 8006, EN AW 1100 (according to European Standards (EN 573-3)). Customer can specify its needs in order to choose the best thickness, alloy and temper of the metal