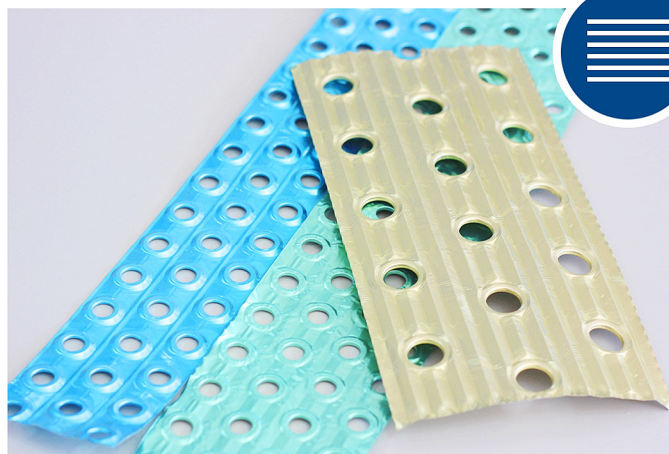


airfin® is lacquered foil to be used for the production of fins for heat exchangers with a high corrosion resistance.

airfin® is an excellent solution of coating against corrosion of the fin. Epoxy resins based on highly specific to this application, **airfin®** provides the desired protection in a wide range of colours.

Its advantages are:

- The polymers with high degree of reticulation aluminum lining prevent aggressive agents come in touch with the metal, they themselves being very resistant to corrosion: the **airfin®** fins are at least 300% more resistant to corrosion than bare aluminum.
- Very good finishing, high thermal conductivity, good drawability and low density.
- Collars height up to 12 mm could be obtained.
- airfin®** finishing have been developed to have highest possible resistance to scratches.



- Studies performed by specialized independent organisms demonstrate that **airfin®** does not favour the growth of micro-organisms.
- We offer the possibility to incorporate the pre-treatment **Alucoat® prelac** improving corrosion protection and the adherence of the lacquer over the aluminium surface.

Applications

ALUCOAT supplies its product **airfin®** in reels of wide until 1.600 mm, with core of steel or carboard up to 500 mm and maximum weight of 6 tonnes.

The lacquered aluminim coils **airfin®** are ideal for developing different applications:

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



Range of products

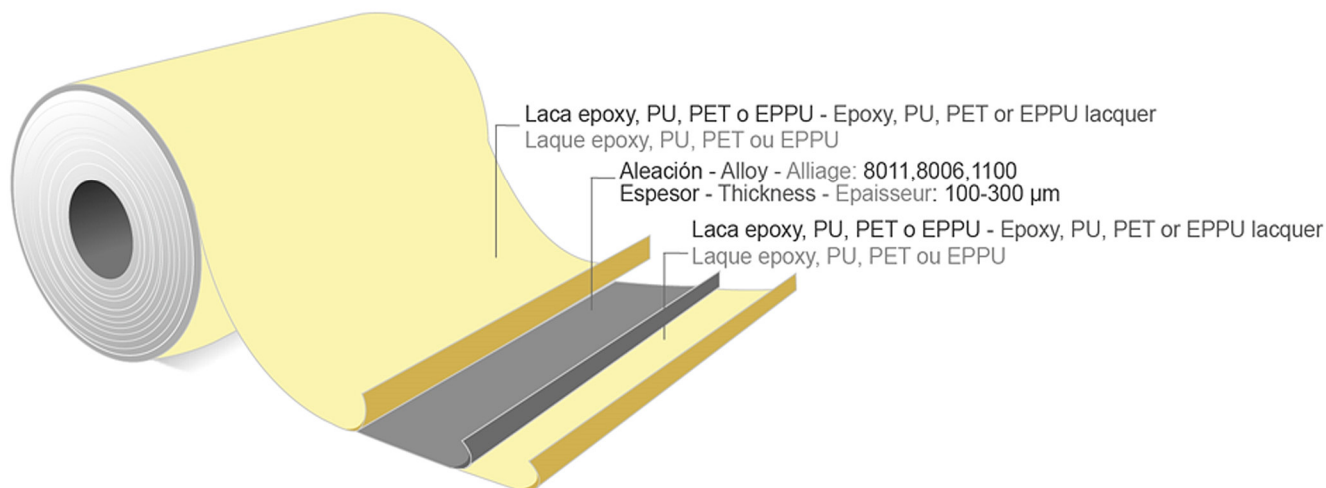
•**airfin® 100**: is an excellent solution of coating against corrosion of the fin. This product offers the desired protection in a wide range of colour.

•**airfin® 300**: Chemical decomposition of many polymers can come catalyzed UV. Ensures their properties **airfin®** without fear of the aging by UV. The chemical decomposition of many polymers is catalyzed by the UV rays, all their properties unaffected by other side-reactions.

•**airfin® 400**: Lacquered foil to be used for the production of fins for heat exchangers with a high corrosion resistance. The polymers with high degree of reticulation aluminum lining prevent aggressive agents come in touch with the metal, they themselves being very resistant to corrosion: the **airfin®** fins are at least 300% more resistant to corrosion than bare aluminum.

•**airfin® 500**: ALL IN ONE. Demand the quality **airfin® 500** to strengthen the corrosion resistance and ensure a lengthening of the life of its exchanger. Can adapt to any environment. Moreover for all range of products an alternative with a pre-treatment coating is available that increases the corrosion resistance of the standard products.

Composition:



Product description:

Aluminium foil from 100 to 300 µm with epoxy based lacquer, PU based lacquer, or EPPU double layer for both sides.

Coating properties:

PROPERTY	MÉTODO	airfin®100	airfin®300	airfin®400	airfin®500
Nature		EPOXY	PU	PET	EPPU
Colors		Gold, grey, black	Blue, grey	Gold, grey	Gold, black
Wettability	UNE EN 546-4	E	E	E	E
Adherence	ASTM D-3359	OK	OK	OK	OK
Bending	ECCA 7 (0 ≤ T BEND ≤ 1)	OK	OK	OK	OK
Drawing	ECCA T6-ISO 1520 (5mm)	OK	OK	OK	OK
Curing	Resistance to MEK	> 50 d.f.	> 50 d.f.	> 50 d.f.	> 50 d.f.
Heat resistance	200°C/5 min.	OK	OK	OK	OK
Solvent resistance	TRICHLOROETHYLENE (85°C/5 min.)	Weight loss < 1%	Weight loss < 1%	Weight loss < 1%	Weight loss < 1%
	PERCHLOROETHYLENE (120°C/30 min.)	Weight loss < 1%	Weight loss < 1%	Weight loss < 1%	Weight loss < 1%
Corrosion resistance (Neutral salt spray)	ASTM B117 (NaCl 5%/35°C)	Up to 1000 h (According to specification)	Up to 1000 h (According to specification)	Up to 1000 h (According to specification)	> 1.000 h.
Kesternich Test Resistance	ISO 3231 (0.2 l SO ₂)	Up to 15 cycles (According to specification)	Up to 15 cycles (According to specification)	Up to 15 cycles (According to specification)	> 15 cycles
Humidity test	DIN 50017 / 1000 h	No modification, no corrosion	No modification, no corrosion	No modification, no corrosion	No modification, no corrosion
U.V. Resistance	ASTM G154 (500 h.; UV-313 4h. 60°C / Condensation 4h. 40°C)	-	OK	OK	OK

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.