

General information on BLUE FIN

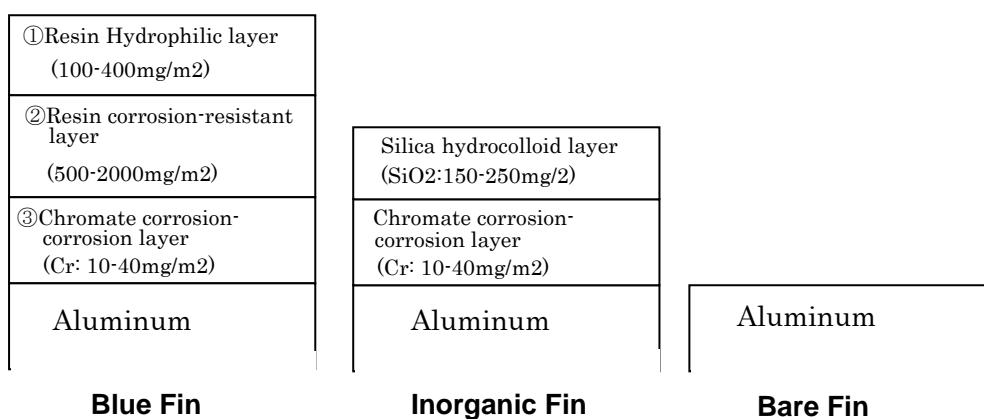
I. General Information on Blue Fin

Blue fin is an aluminum fin of the outdoor unit on which additional coatings are provided for anti-corrosion purpose.

In FGL's blue fin, as the thick coating film is provided due to employing 3-stacking layers' structure, the performance of corrosion resistance is improved.

II . Details of the blue fin's layered structure

The diagrams below show the layered structures of major fins for air conditioner's outdoor units.



1. Functions of each layer of coating

①Resin hydrophilic layer

This layer is provided to maintain the long-lasting hydrophilic effect.

The effectiveness between the heat-exchanger and hydrophilic is proportionately achieved.

②Resin corrosion-resistant layer (colored in blue)

This layer is provided for protection of the aluminum fins to prevent corrosion and thus prolong durability.

The blue fin alone has the corrosion-resistant effectiveness. However, the effectiveness of the corrosion-resistant will depend on the thickness of the blue fin.

This layer is colored in blue. If the resin hydrophilic layer is coated with color, it will dye the drainage water accordingly.

③Chromate corrosion-resistant layer

This layer is provided for the aluminum fins to be chromatically treated to prevent corrosion.

III. Comparisons between blue fin and conventional fins

The manufacturer derived from an in-house test that the corrosion-resistant effectiveness of blue fin is two times*¹ higher than inorganic fin and it is seven times*² higher than a bare fin.

***1/*2: These figures are obtained from the FGL's in-house test, which was carried out based on JIS Z2371 requirement in which the conditions of salt spray test are complied. The figures may be different in the various actual usage conditions.**

IV. Note

- 1) The specifications of the blue fin are common in the FGL products of RAC, PAC and VRF.
- 2) As no salt-resistance protections are provided for on other parts such as cabinet and PCB boards, hence there is no guarantee that the whole product is always corrosion-resistant.

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