

Aluminum Sheets for Closures

Aluminum Sheets for Closures Product Introduction

Aluminum Sheets for Closures are one of the superior products of Mingtai Aluminum. The company is equipped with a super-long cleaning line and flat shears to ensure that the surface of the product is degreased and clean, and the ear-making rate is low. The company produces a wide range of aluminum substrates for bottle caps. It is used in the bottle cap packaging of wine, beverage, medical cap material, cosmetics, etc., and is exported to more than 40 countries and regions such as South Korea, North America, Southeast Asia, and the United States.

Aluminum alloy for closures

8011 aluminum foil cap material, 1235 aluminum foil bottle cap material, 1070 aluminum foil bottle cap material, 1060 aluminum foil bottle cap material, 5052 pull cap material, 3105 wine cap material.

In addition to good deep drawing performance and low ear-making rate, aluminum alloy bottle cap materials also have certain strength advantages after being baked in the cap making process. Aluminum bottle cap materials are very advantageous in terms of sealing and aesthetics, so the aluminum market for bottle caps will become better and better.

Acceptance criteria for bottle cap materials before packaging

The end surface of the roll should be neat, without cracks, burrs, warped edges, ruffles, rough edges, bumps, etc.

Whole roll staggered layer < 2mm, tower type < 5mm.

The strip is freely unfolded on the platform, and the wave height is less than 3mm; the number of waves within any one meter does not exceed. The surface should be flat, clean and free of oil spots, and no wrinkles or serious indentations are allowed.

Aluminum Sheets for Closures Requirements for Material Properties

The stretching length of the aluminum bottle cap is relatively large, so it is necessary to choose a material with a good elongation. Usually, the base material of bottle cap material aluminum plate is made of 8011 aluminum foil, 3003 aluminum foil and 3004 aluminum plate. 1050 aluminum plate and 1060 aluminum plate are also used. Choose which alloy aluminum plate to use according to the stretching length of different products.

Aluminum bottle caps are mostly processed on a production line with a high degree of automation, so there are strict requirements on the strength, elongation and dimensional deviation of the material, otherwise cracks or creases will occur during deep drawing. In order to ensure the convenience of printing after the bottle cap is formed, the aluminum surface of the bottle cap material is required to be flat, without rolling marks, scratches and stains. The aluminum plate of the bottle cap material has 8001-H14, 3003-H16, etc. The material specifications generally have a thickness of 0.20~43.3mm, an allowable tolerance of $\pm 0.1\%$, and a width of 449-796mm.

Technical Parameters of Aluminum Sheets for Closures

Alloy series	1xxx series	3xxx series	5xxx series	8xxx series
Alloy	1060	3104、3105	5052、5182	8011
Temper	H14、H16、H18、H19			
Thickness(mm)	0.012-0.5			
Width(mm)	100-1600			
Length(mm)	C			

