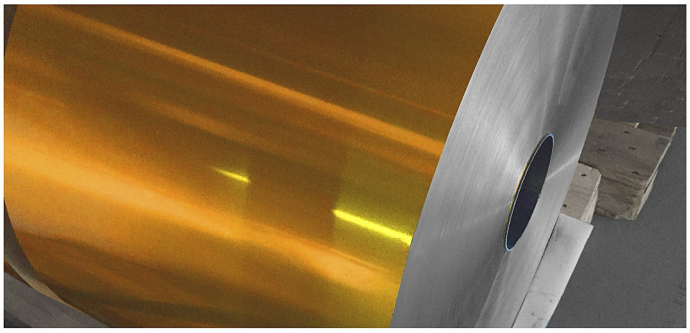
linfoil®
Lacquered aluminium foil

Data Sheet

linfoil® is the designation of ALUCOAT for the lacquered or printed foil intended to be used in the production of lids for the food market, providing unique advantages for this sector. The products preserve the freshness and good condition thanks to the properties of lacquered aluminium coils of **linfoil®**. They are safe for use in contact with foodstuff (according to European Directives and FDA). The lacquered aluminum coils **linfoil®** have other excellents properties such as:

•High barrier protection against light, loss of moisture and flavours as well as preventing external contamination.
•Good printability with rotogravure or UV flexo inks, that offers a wide range of decorative possibilities.
•Ideal mechanical properties for embossed surface designs.
•Excellent sealing properties against all common plastics.



Range of products

•**linfoil® 200**: sealable against PS/PVC.
•**linfoil® 250**: sealable against PS/PVC deasy to open (easy-peel).
•**linfoil® 300**: sealable against PVC.
•**linfoil® 400**: sealable against PS/PP/PVC/PET.
•**linfoil® 450**: sealable against PS/PP/PVC/PET with special properties.
•**linfoil® 500**: sealable against PE.
•**linfoil® 700**: sealable against PS with anticorrosive properties.
•**linfoil® 900**: sealable against PP.
•**linfoil® 1000**: sealable against PP with anticorrosive properties.

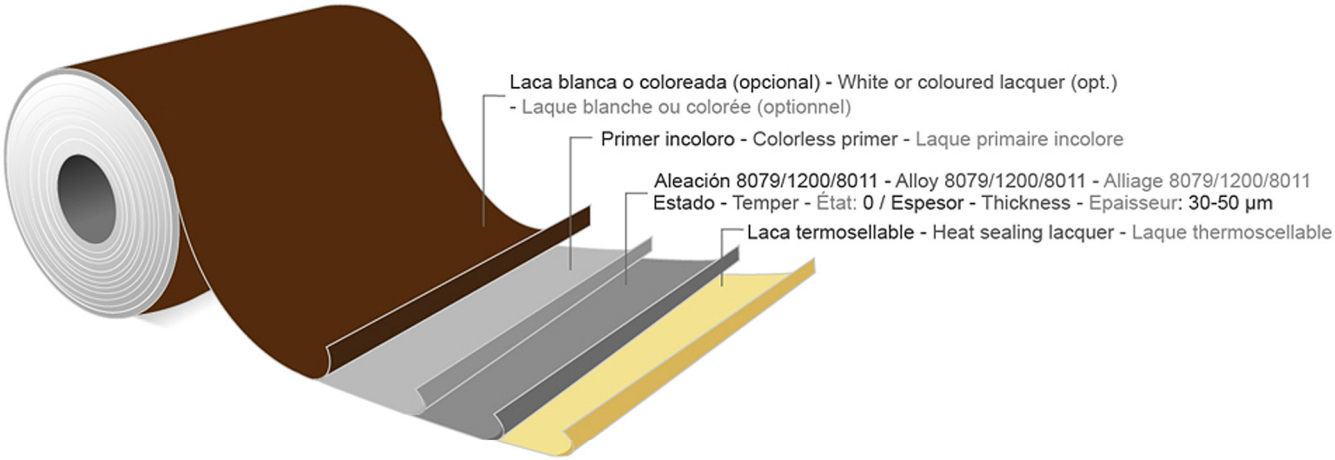
Applications

ALUCOAT supplies its product **linfoil®** in reels of wide until 1.250 mm, with steel core or carton up to 150 mm, maximum diameter of 1.000 mm and maximum weight of 2 tonnes.

linfoil® is used for the fabrication of:

•Lids for dessets packaging.
•Lids for jams packaging.
•Lids for butter packaging.
•Lids for fresh cheese and others dairy products.

Composition:



Product description:

Aluminium foil of 30-50 µm with colourless primer or white nitro lacquer on one side and heatsealing lacquer on the other side.

Coating properties:

•Excellent adhesion to aluminium foil (resistant to adhesive tape test)
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•Good printing results using nitrocellulosic inks and UV inks. (Inks' resistance is responsibility of the printer).

•Resistant to heatsealing temperature (max. 220ºC 1s).

•Water resistant (30 min at room temperature).

Recommended alloys:

EN AW 8079, EN AW 1200, EN AW 8011A (according to European Standards (EN 573-3)). Customer can specifiy its needs in order to choose the best thickness, alloy and temper of the metal. Alloy 8079 is recommended when the lids are to be punched to determine the best thickness, alloy, and metal state. The alloy 8079 is recommended when the covers will be stamped.

Heatsealing lacquers:

•Authorized for contact with foodstuffs (FDA).
•Water resistant (30 min at room temperature).
•Resistant to boiling water (5 min/100ºC).
•Lacquer porosity (15 min) < 5 pores/m2 (20g $CuSO_4$ /50cc HCl(35%) /1000cc. H_2O) (The resistance to this test is up to 2 hours with the anticorrosive version of the lacquer)
•There are different types depending of material to which the lid must seal:

◦Heatsealing lacquer to PS/PVC:
·Peel strength to PS > 5.5 N/15mm. (180ºC, 40 kg, 1s)
·Peel strength to PVC > 9 N/15mm. (180ºC, 40 kg, 1s)

◦Heatsealing lacquer to PVC:
·Peel strength to PVC > 9 N/15mm. (180ºC, 40 kg, 1s)

◦Heatsealing lacquer to PP:
·Peel strength to PP > 9 N/15mm. (200ºC, 40 kg, 1s)

◦Heatsealing lacquer to PE:
·Peel strength to PE > 9 N/15mm. (200ºC, 40 kg, 1s)

◦Universal heatsealing lacquer to PP/PS/PVC/PET:
·Peel strength to PP > 9 N/15mm. (200ºC, 40 kg, 1s)
·Peel strength to PVC > 9 N/15mm. (180ºC, 40 kg, 1s)
·Peel strength to PS> 9 N/15mm. (180ºC, 40 kg, 1s)
·Peel strength to PET > 9 N/15mm. (200ºC, 40 kg, 1s)