

Alumseal® 611

Pretreatment technology for extension of electroless nickel bath life



General Metal Finishing

Electroless nickel

atotech.com



Advanced zincate process providing thin zincate coatings for improved adhesion and reduced zinc contamination of the electroless nickel bath

Alumseal® 611 is an innovative zincate process which has been developed to provide very thin zinc coatings.

Alumseal® 611 is especially designed to extend the bath life of the electroless nickel process to > 6 MTO without the aid of electroless nickel strike.

Alumseal® 611 has demonstrated that coating weight of the zinc film is reduced by 30 – 60% on aluminum alloys when compared to existing zincate processes.

Alumseal® 611 is also suitable for electrolytic nickel plating on aluminum.



Enhance electroless nickel plating efficiency

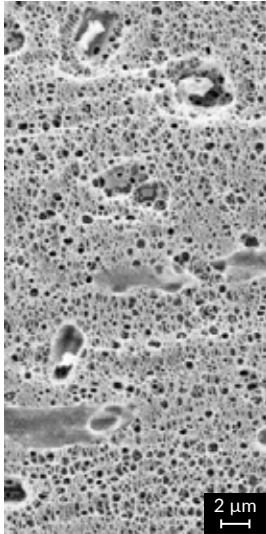
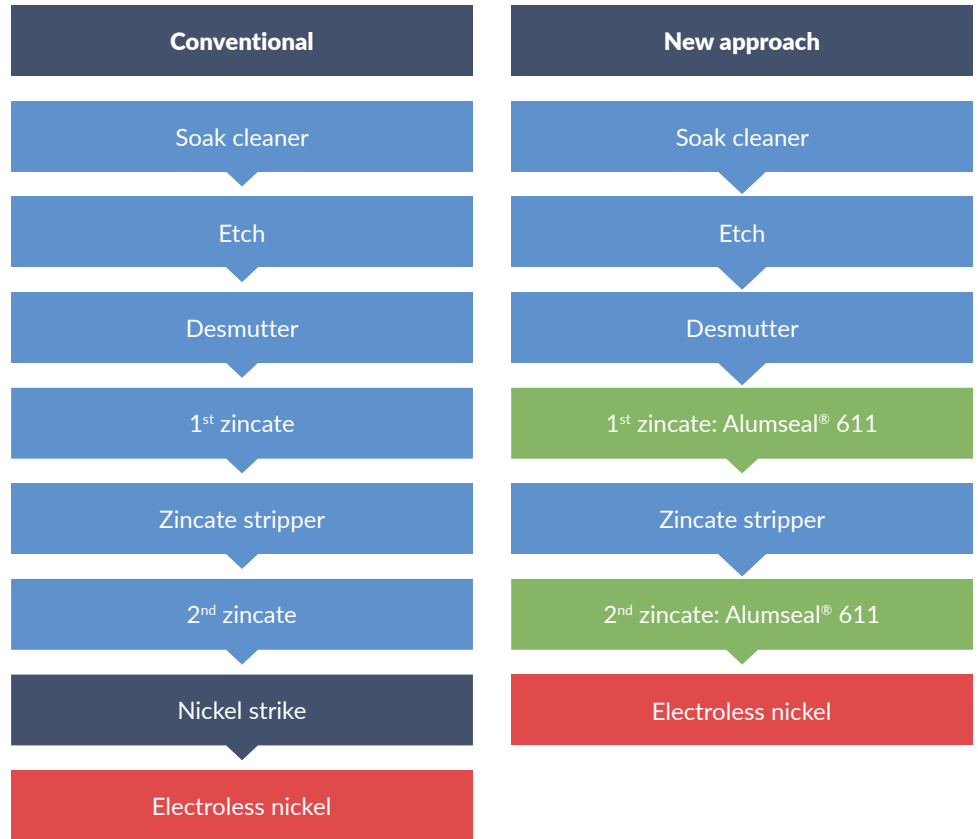


Figure 1:
SEM image of Alumseal® 611

Pretreatment process sequence for aluminum alloys



Features and benefits

- Cyanide-free process
- Reduces Zn contamination of the electroless nickel plating bath – resulting in higher average plating rate
- Extends bath life of the electroless nickel process
- Eliminates the need for an electroless nickel strike bath and thereby reduces the pretreatment steps
- Easy to control – additions are based on zinc analysis
- Concentrated liquid product
- Single additive process

