

# ACABADOS PARA ALUMINIO

## CLEANING

Process name	Form	Description / Key Features
LUMIA CLEAN 100	Liquid	Mildly alkaline cleaner, borate free and silicate free. Suitable for ultrasonic application.
LUMIA CLEAN 101	Powder	Mildly alkaline cleaner, borate free and silicate free. Suitable for ultrasonic application.
LUMIA CLEAN 110	Liquid	Mildly alkaline hydrophobic cleaner, phosphate free and silicate free. Suitable for ultrasonic application. Highly efficient in removing polishing pastes. Recommended to use hydrophilic soak cleaner afterwards.
LUMIA CLEAN 111	Powder	Mildly alkaline cleaner, silicate free. Suitable for ultrasonic application.
LUMIA CLEAN 121	Powder	Silicate, non-etch alkaline cleaner. Contains no foaming surfactants. Suitable for spray application.
LUMIA CLEAN 122	Powder	Weakly alkaline high efficiency soak cleaner. Contains silicates, free from complexing agents. Suitable for ultrasonic application.
LUMIA CLEAN 130	Liquid	Highly concentrated acidic cleaner. Can be used as a soak cleaner, as a deoxidizer or to slightly etch the surface. Works at a low temperature.

## ALKALINE ETCHING

Process name	Form	Description / Key Features
LUMIA ETCH 200	Liquid	Highly concentrated alkaline product with complexing agent. Used to clean and/or etch aluminium. Can work in combination with emulsifying cleaner additives such as AB 40 or AB 47.
LUMIA ETCH 201	Powder	Highly concentrated alkaline product with complexing agent and surfactants. Used for cleaning and etching aluminium.

## BRIGHTENING

Process name	Form	Description / Key Features
LUMIA BRIGHT 300	Liquid	Chemical brightening process. Produces a higher degree of brightness than mechanical polishing.

## ACID PICKLING AND DESMUTTING

Process name	Form	Description / Key Features
LUMIA DEOX 402	Powder	Additive for acidic pickling baths. Contains fluorides, used with nitric and/or sulphuric acid. Increases etching speed, very efficient to deoxidize silicon rich alloys, especially cast aluminium.
LUMIA DEOX 411	Liquid	Highly concentrated desmutter for aluminium. Versatile, especially suitable for copper rich alloys and cast alloys. Removes etching residues and oxides easily. Can be used to replace sulfochromic pickling.
LUMIA DEOX 412	Powder	Desmutting additive, used in combination with sulphuric acid. Free of nitrate, does not attack the base material. Can be used prior to anodising without subsequent rinsing.

## PASSIVATION

Process name	Form	Description / Key Features
LANTHANE VS 621	Liquid	Passivation for aluminium, based on trivalent chromium, contains nickel and cobalt. Can also be used as a zinc die cast passivation.
LANTHANE 613.3	Liquid	Passivation for aluminium, based on trivalent chromium, free from cobalt and nickel. High bare corrosion protection, preserves the electrical conductivity of the surface and improves paint adhesion.

## SEALING OF ANODISED ALUMINIUM

Process name	Form	Description / Key Features
LANTHANE 613.3	Liquid	Pre-sealing bath without nickel and cobalt. High corrosion performances achieved even on sensitive alloys.
LUMIA SEAL 920	Powder	Hot sealing additive based on nickel salts. Prevents powdery residues from forming on the surface and acts as a pH buffer for the sealing bath. Prevents organic dyes from bleeding. Improves the corrosion resistance of anodised layers.