Declaration of Conformity



1- Foreword

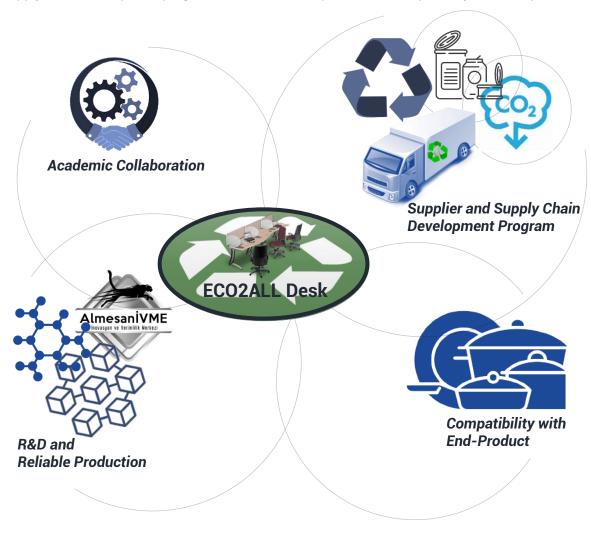


ECO2ALL is a green alloy series developed by the environmental care approach of Almesan Alüminyum. It consists new type, recycled and lower-carboned alloys for the production of kitchenware equipments. As the main idea is to use recycling-friendly allowable aluminium alloys from the post-consumer scraps, this situation, ofcourse, does not give the flexibility to achieve superior mechanical properties in common well-known processes. Most of the aluminium scraps have similar qualifications, due to the urban wastes like cans, storage containers etc. create the main aluminium recycling and regaining sources.

There are two ways to recycle and regain these type of materials: First way is to convert them by adding to purer aluminium melting parties and to make them minor part of the bulky alloys, or, **the second and most environmental-friendly way** is to reuse them as major recycled part of the alloy by adjusting appropriate conditions including casting, annealing and forming.

ECO2ALL Series are the result of the second way for a reliable and healthier environment with lower carbon footprint.

ECO2ALL Ecologic & Economic Alloys are developed as a result of Green Alloy Project by leadership of Almesan Alüminyum together with project partnerships including academic collaboration, supplier and supply chain development program, R&D and reliable production, compatibility with end-product.









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2- Product Range and Appearance Properties



Upon request, other thicknesses, diameters and widths are available. ECO2ALL alloys are mainly designed for kitchenwares. As the ability of deep drawing is the prior parameter of the design criteria, ECO2ALL products can also be used for other applications like architectury and construction, traffic signs and several purposes of general use. **Discs** are the basic design geometry of ECO2ALL and ofcourse **rolls, squares, plates** and **strips** are available accordance with customer demands. Almesan Alüminyum is also capable to supply **coated discs**.

Surface properties of the products are *mill-finish* and can be supplied as *smoothly degreased* in case of extra demands.

3- Chemical Composition

	Sı	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
Min.	0,10	0,15	0,02	0,10	0,15	-	-	-	
Max.	0,60	0,50	0,20	0,75	0,85	0,05	0,10	0,10	Remainder

4- Mechanical Properties

Annealing	Yield Strength	Tensile Strength	Elongation
Temper	R _s (MPa)	R _m (MPa)	A50%
H0/H111	>50	80 - 145	>15

5- Compatibility with End-Products



ECO2ALL products are converted to kitchenwares (pots and pans), coated with PTFE (inner surface) and silicon base paint (outer surface). Kitchenwares produced with ECO2ALL products are long-termly tested to simulate the extreme conditions including surface abrasion tests, several types of cooking tests (egg, tomato paste etc.), sticking and bounding tests.

At the end of the tests, ECO2ALL products have been approved for the compatibility to end products.



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6- Carbon Footprints & Recycling

While calculating carbon footprints of ECO2ALL following topics are considered:

- End-of-life aluminium cans, storage containers and kitchenware (pot, pan etc.) are defined as "End-User Sourced / Post-consumer Goods"
- Output scraps, machining shavings taken from several industrial facilities which cannot be used for another purpose are considered as "Industrial Waste Sourced / Pre-consumer Goods".
- In-factory process scraps are not included to ECO2ALL alloys and these type of scraps are not **<u>defined</u>** post- or pre-consumer scraps, ofcourse not identified as end-of-life.
- Based on the general principles about end-of-life materials, embedded carbon footprint derived by post-and pre-consumer scrap is taken as "zero".

Carbon footprint calculations also include:

- Transportation of the collected end-of-life scraps from scrap collecting fields to recycling
- Smelting the scraps and producing of recycled ingots at the facility of recycling party
- Transportation of ingots from recycling party to Almesan Alüminyum
- All operations starting casting house to delivery department inside of Almesan Alüminyum with Scope I and II.
- Average transportation from Almesan Alüminyum to Buyers (truck + ship)

7- Specific Carbon Footprint & Recycling Ratio

Based on the calculation of carbon footprints mentioned at Article.6;

One Tone Disc Made of ECO2ALL emits between 1.6-1.8 ton CO2-eq as specific carbon footprint with 100% Recycled Aluminium from post- and pre-consumer goods by C2C Approach. The specific number can vary depending on the special customer demands and transportation distance.

8- References

This Declaration of Conformity is prepared based on "ISO 14021:2016 Environmental labels and declarations: Self-declared environmental claims (Type II environmental labelling)"





Note: This document has firstly been issued in the date of 26th of August 2022. All informations given are specifically related with product ranges mentioned. In case of any change of product range and other conditions, Almesan Alüminyum will do declaration with technical remarks and keeps the right for revision.

