



FLAMINGO

Fabrication of Lightweight Aluminium Metal matrix composites and validation In Green vehicles

Deliverable D 3.1
Market availability of raw materials for AIMMnC

Lead Beneficiary

MBN

Delivery Date

30th July 2021



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Publishable Executive Summary

FLAMINGo targets to reach the market with a material solution that increases the mechanical properties of Aluminum alloys to the point that more steel part can be substituted with this new materials, considerably increasing the lightweightness of the vehicles. To be adopted in the market, beside the technical performances of the material, some aspects of the supply chain for the manufacturing of these materials has to be addressed.

This document describes with are the technologies for the manufacturing of the raw materials used in FLAMINGo, where to find them and how much does they cost, both for primary and secondary aluminum and for nanoparticles. This overview of the raw materials contributes to the selection of raw materials for the formulation of the Al-MMnC, in particular to the selection of nanoparticle, which morphology, size and supply/availability are pivotal for the success of the project.

