

THERMACO – Smart Thermal MMCs by casting

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THERMACO is an European project that focuses on the use of novel, anisotropic, carbon based thermally conductive materials for heat evacuation applications in critical fields such as power micro-electronics, e-mobility and (renewable) energy generation as well as highest performance combustion engines. It provides manufacturing technologies to integrate thermal highways based on Graphene and TPG into Aluminium cast parts, creating extremely efficient solutions of heat evacuation using Aluminium Metal Matrix Composites (Al-MMC), applicable in many key technologies and products, bolstering several sectors in Europe.

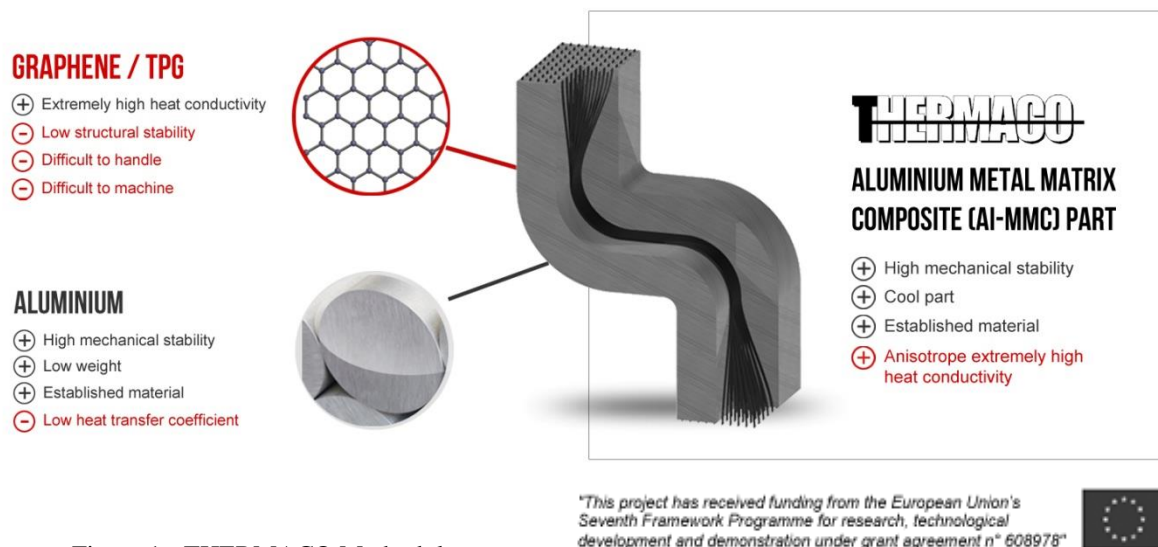


Figure 1 - THERMACO Methodology.

THERMACO develops new and improved specialised heat conductive materials, aiming at industrially applicable solutions while taking environmental aspects into account.

It incorporates technological and strategic innovations in order to provide products for a wide range of sectors with suitable tools and methodology for a significant increase in functional properties while ensuring compact design, weight reduction and cost efficiency.

THERMACO brings together eleven European stakeholders from Research, Academia and Industry, joining SME with large enterprises. By generating, exchanging and applying LEIT knowledge it strengthens the European bond and secures future European success.