



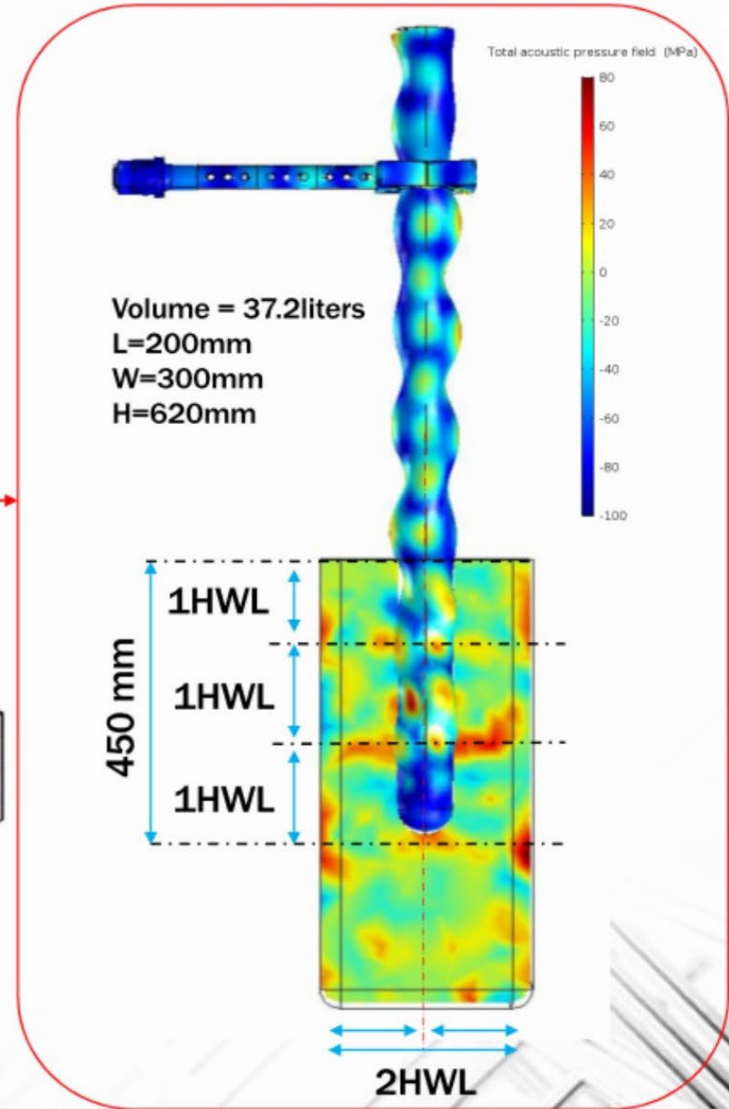
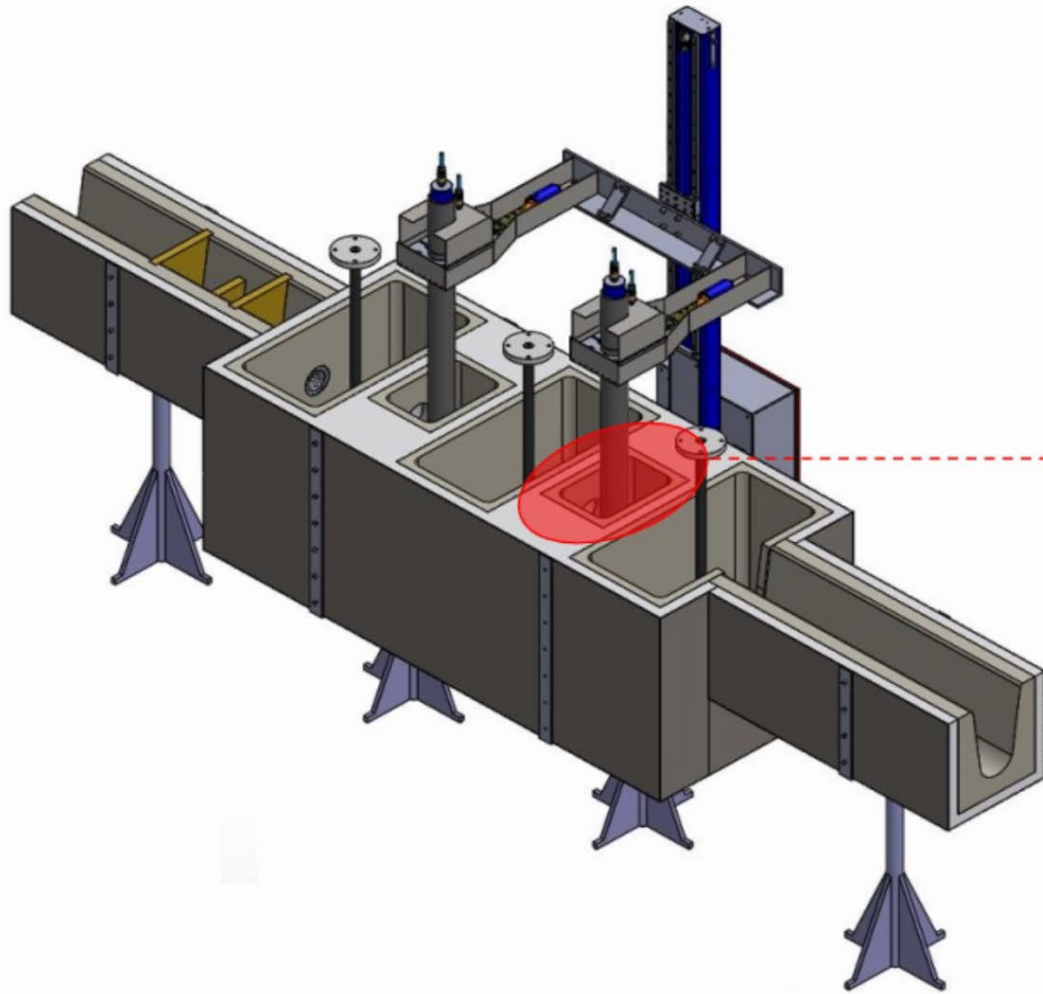
ULTRASONIC TECHNOLOGY

- CASTING TECHNOLOGY
- INTENSIFICATION OF PROCESSES
- CONTROL

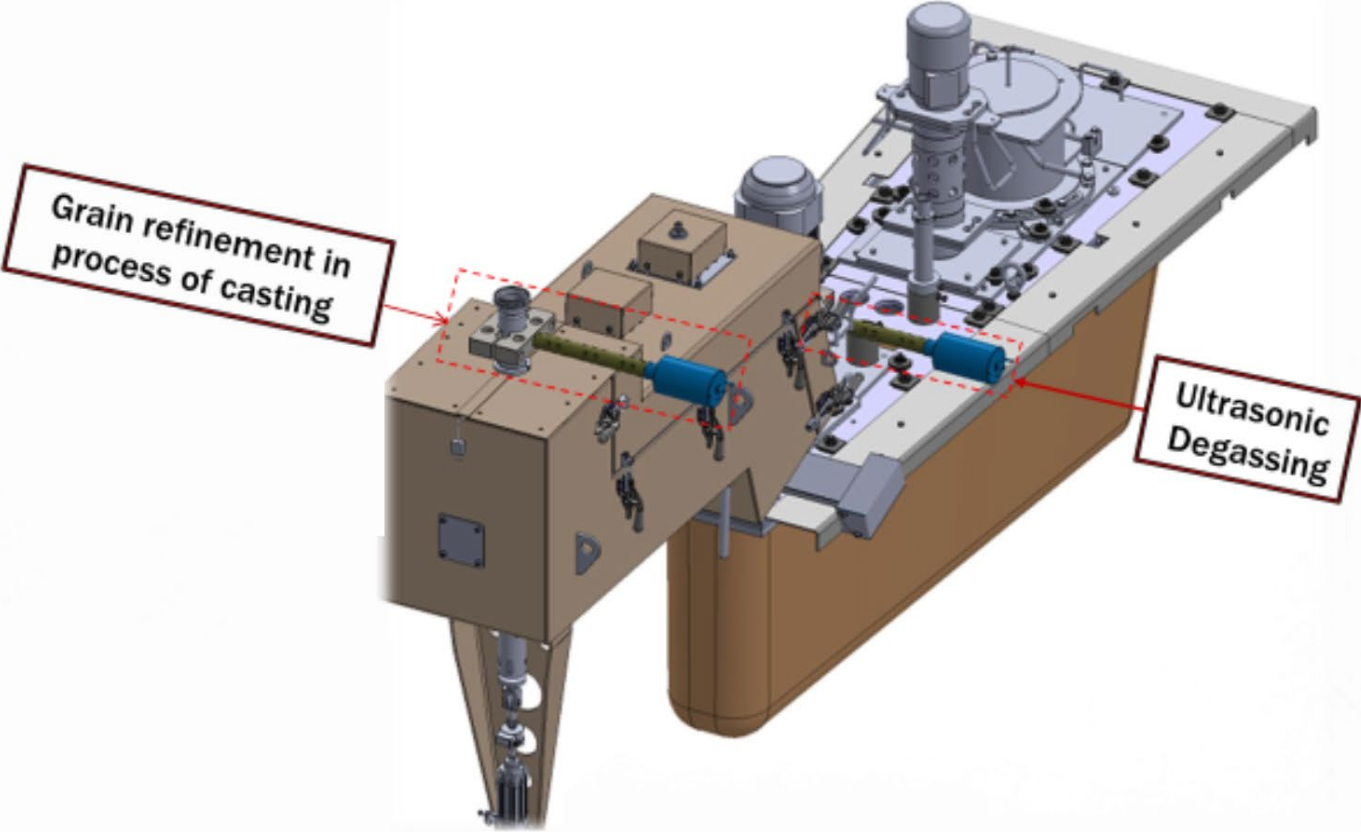


ANYTHING
HAS IT'S
OWN
SOUND

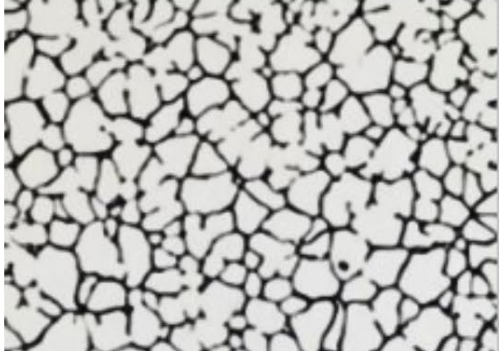
CONTINUOUS ULTRASONIC PROCESSING APPLIED TO ALLOY



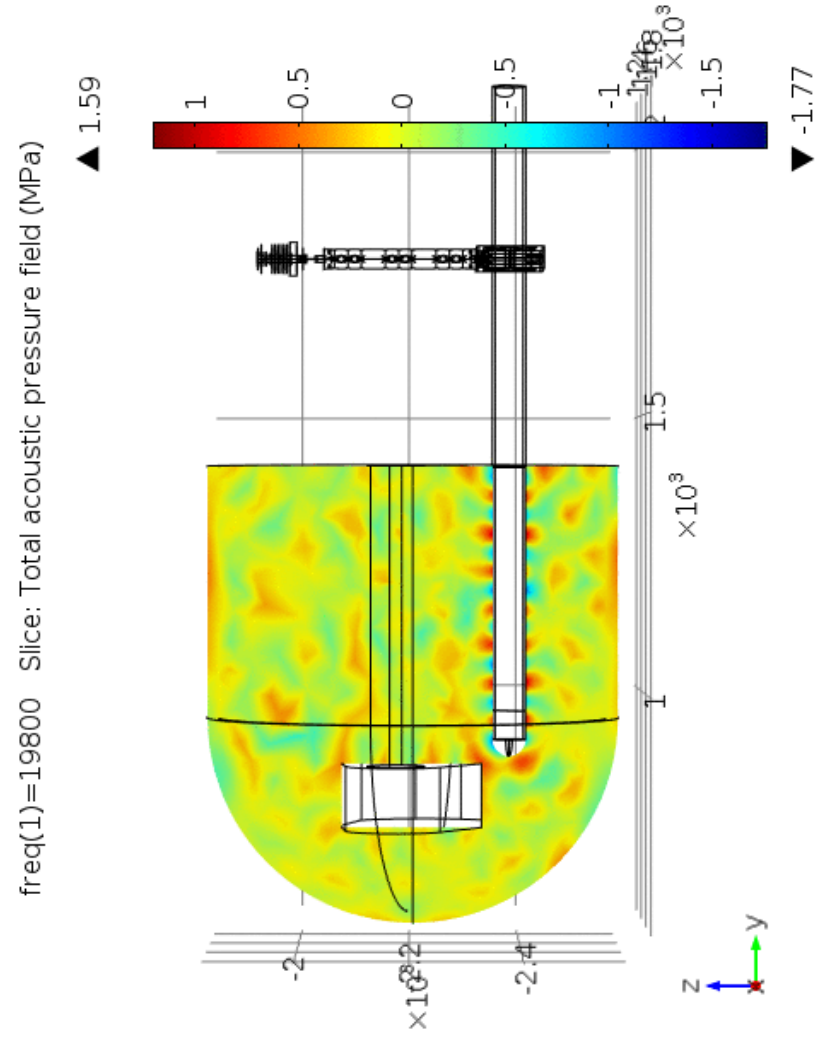
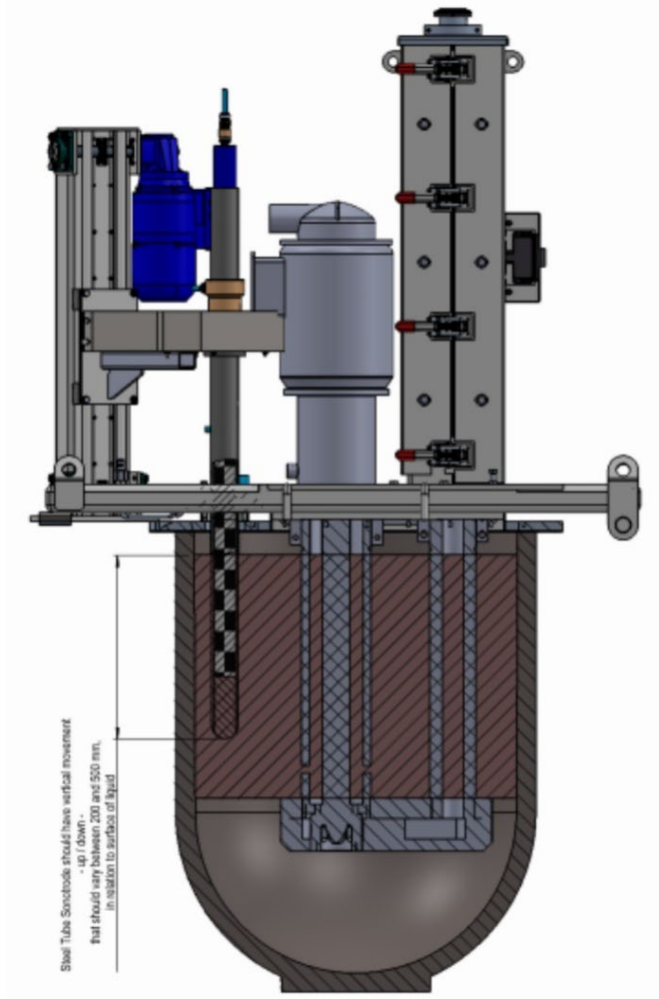
DESIGN OPTIONS APPLIED IN PROCESSING OF LIGHT ALLOY MELTS



Light Alloys Furnace
Ultrasonically optimized

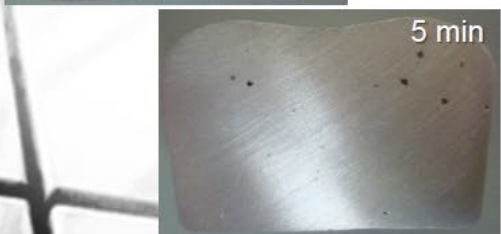
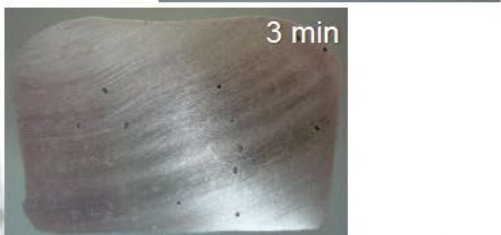
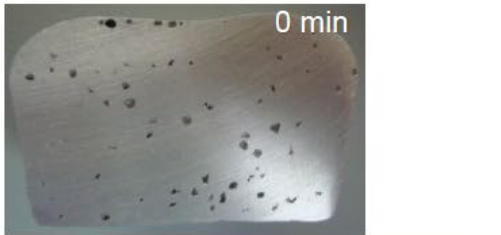


DEGASSING AND MODIFICATION OF ALLOY



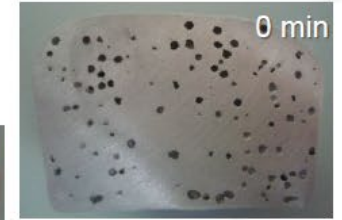
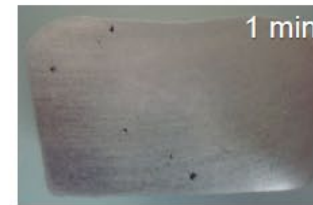
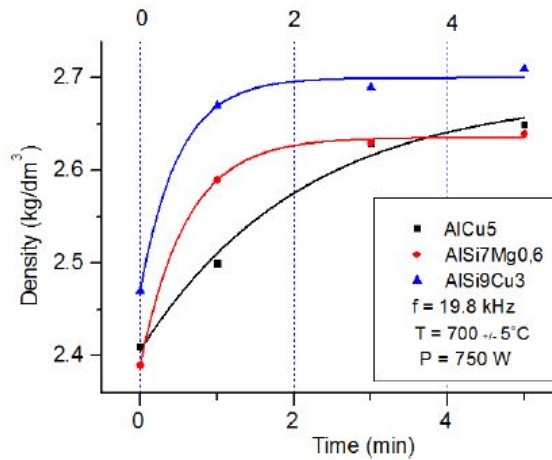
ALLOY MODIFICATION

Static Casting, Ultrasonically Assisted

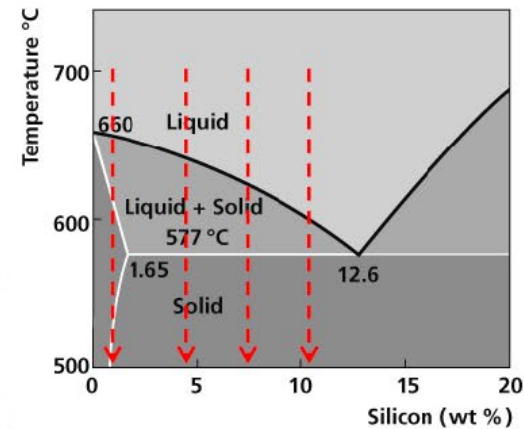
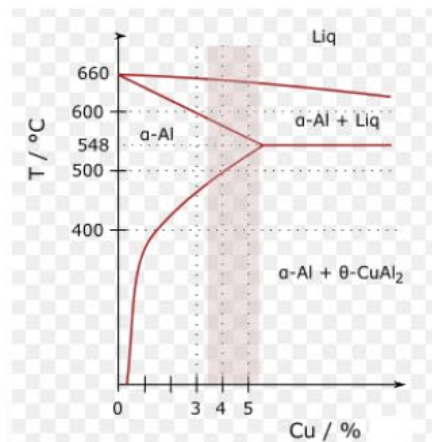


Al-Cu

Some of our experimental results

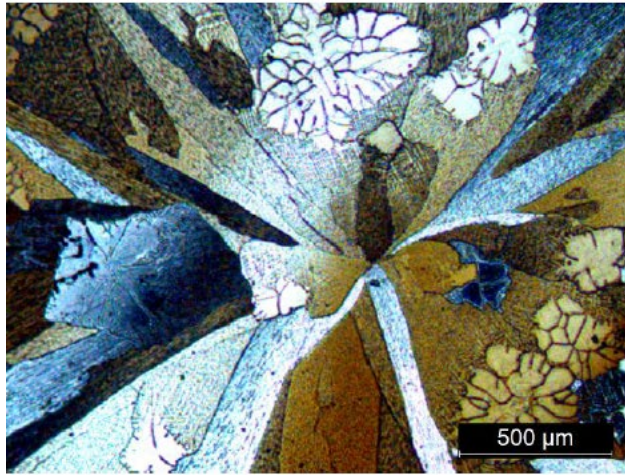


Al-Si-Mg

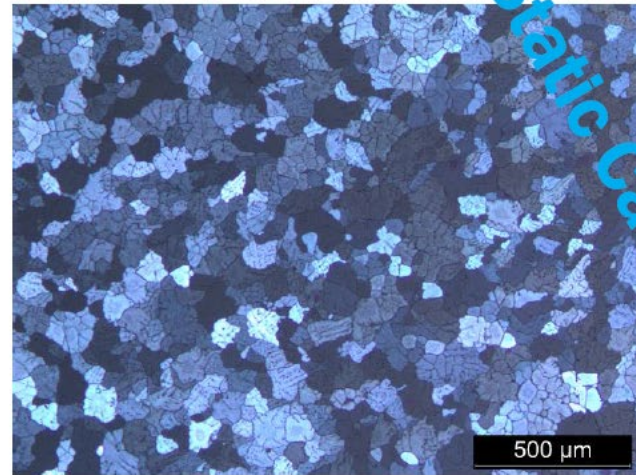


ALLOY MODIFICATION

AlSc

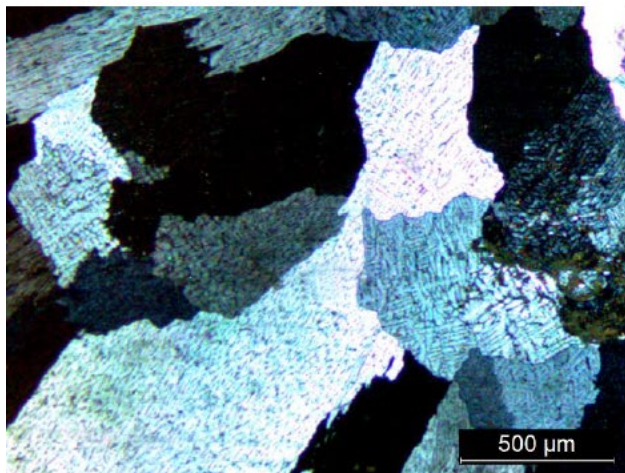


AlSc+US

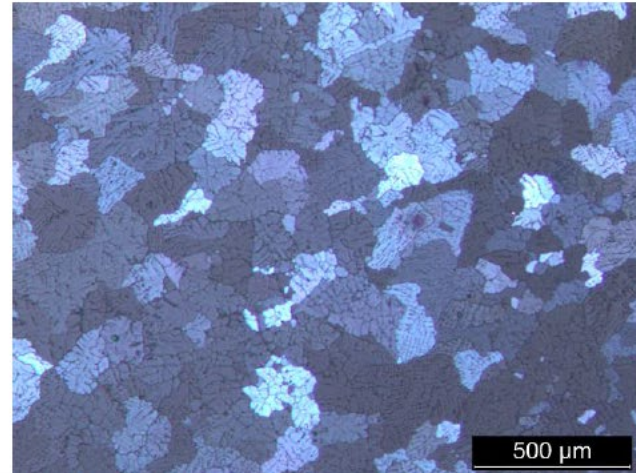


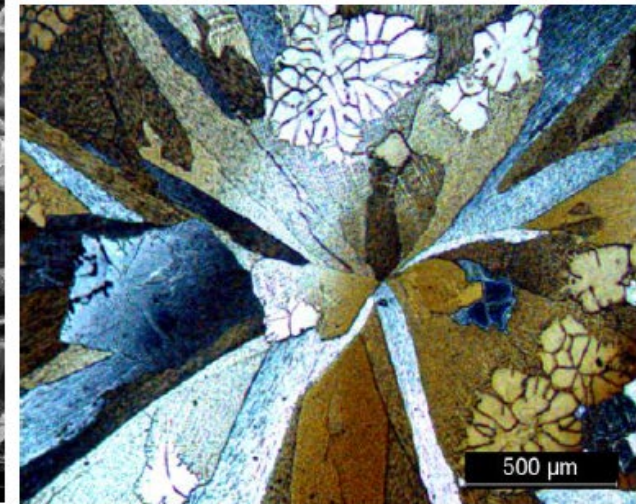
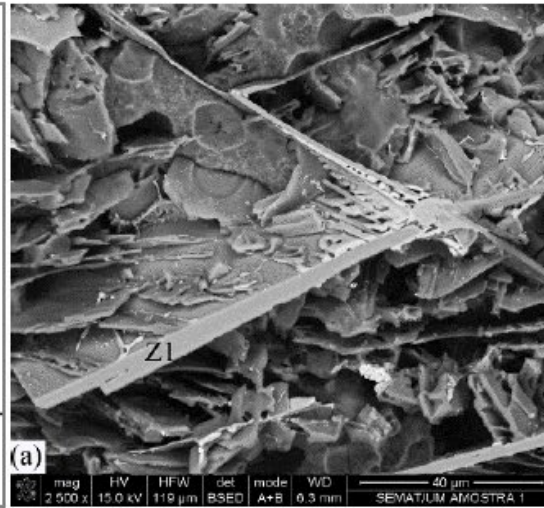
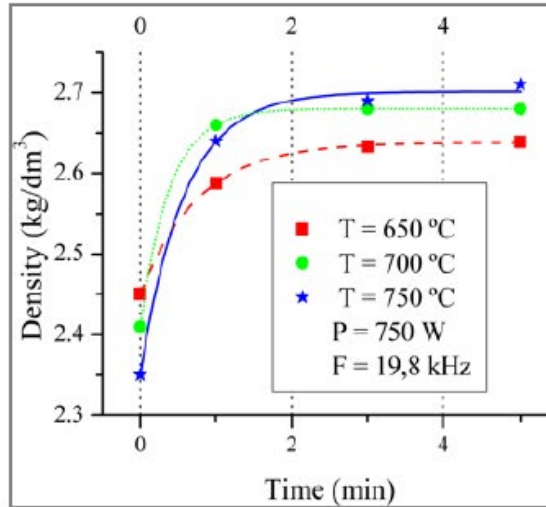
Static Casting

AlScMg



AlScMg+US





before US

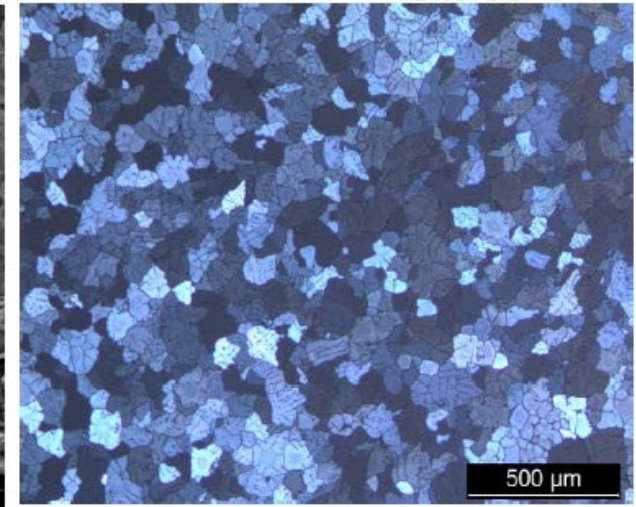
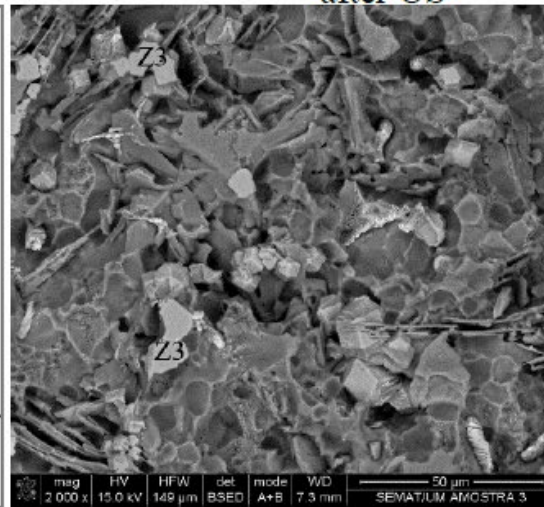
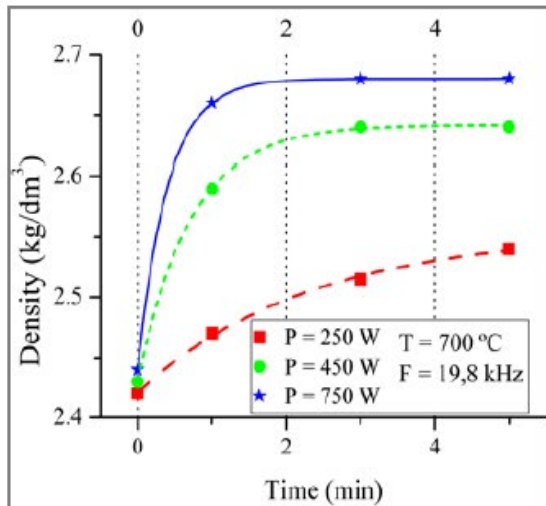


after US

before US



after US



Examples of US processing results: degassing, intermetallic refinement and grain refinement.

GEARBOX HOUSING CASTING WITH AN APPLICATION OF MMM TECHNOLOGY

