SUPPLEMENTARY MATERIAL

Effect of microstructure on the precipitation of ß-Mg2Si during cooling after homogenization of Al-Mg-Si alloys

Hennum, E. [1]; Marthinsen, K.[1]; Tundal, U.H.[2]

[1]Norwegian University of Science and Technology, N-7491 Trondheim, Norway
[2]Hydro Aluminium AS, N-6601 Sunndalsøra, Norway

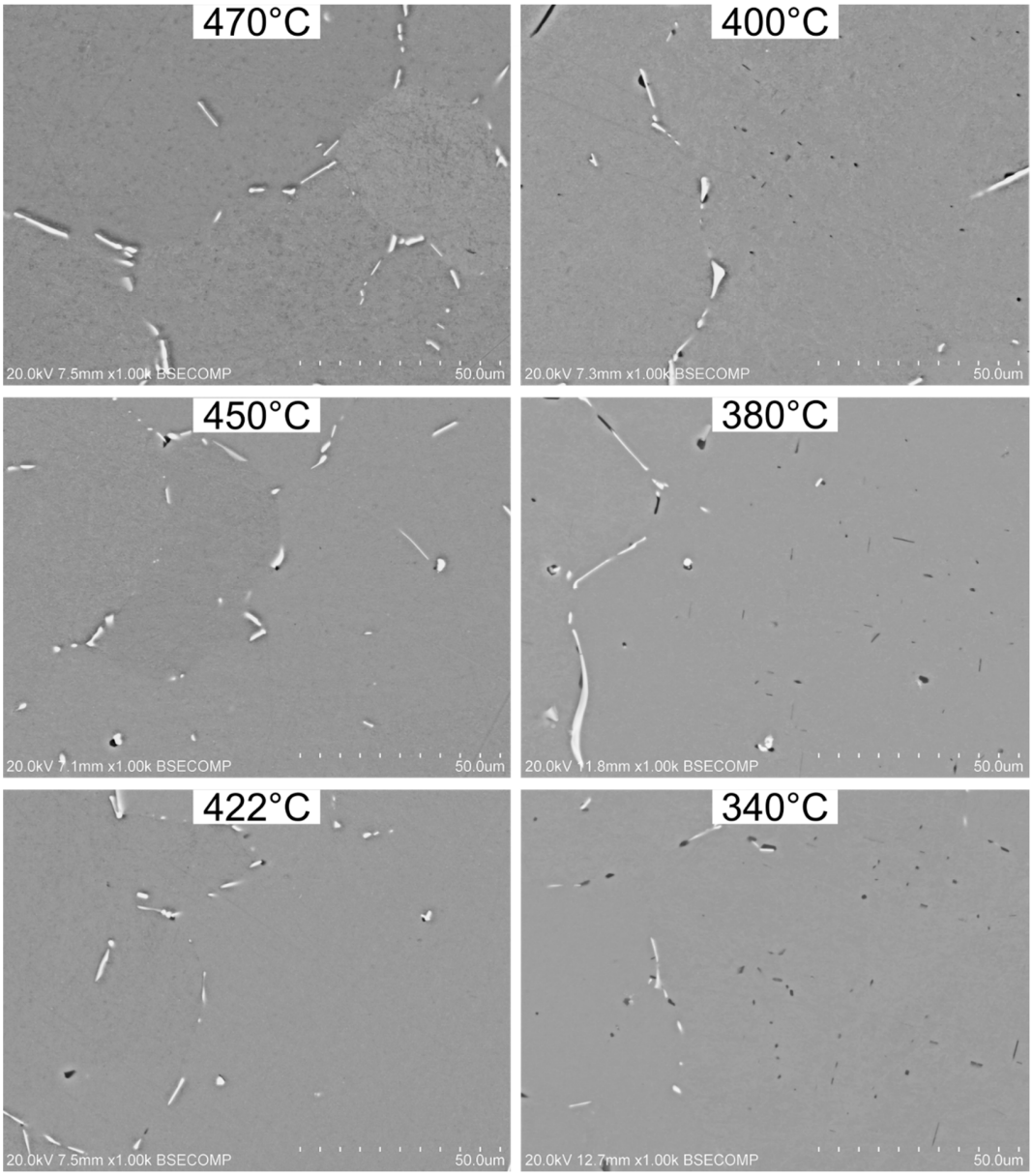

Figure S1: SEM micrographs of the β-Mg_2Si particle structure at different temperatures during cooling 1K/min in alloy FE-20-203 (0.20 wt.% iron). The β-Mg_2Si phases are dark, and the primary Al-Fe-Si phases are bright.

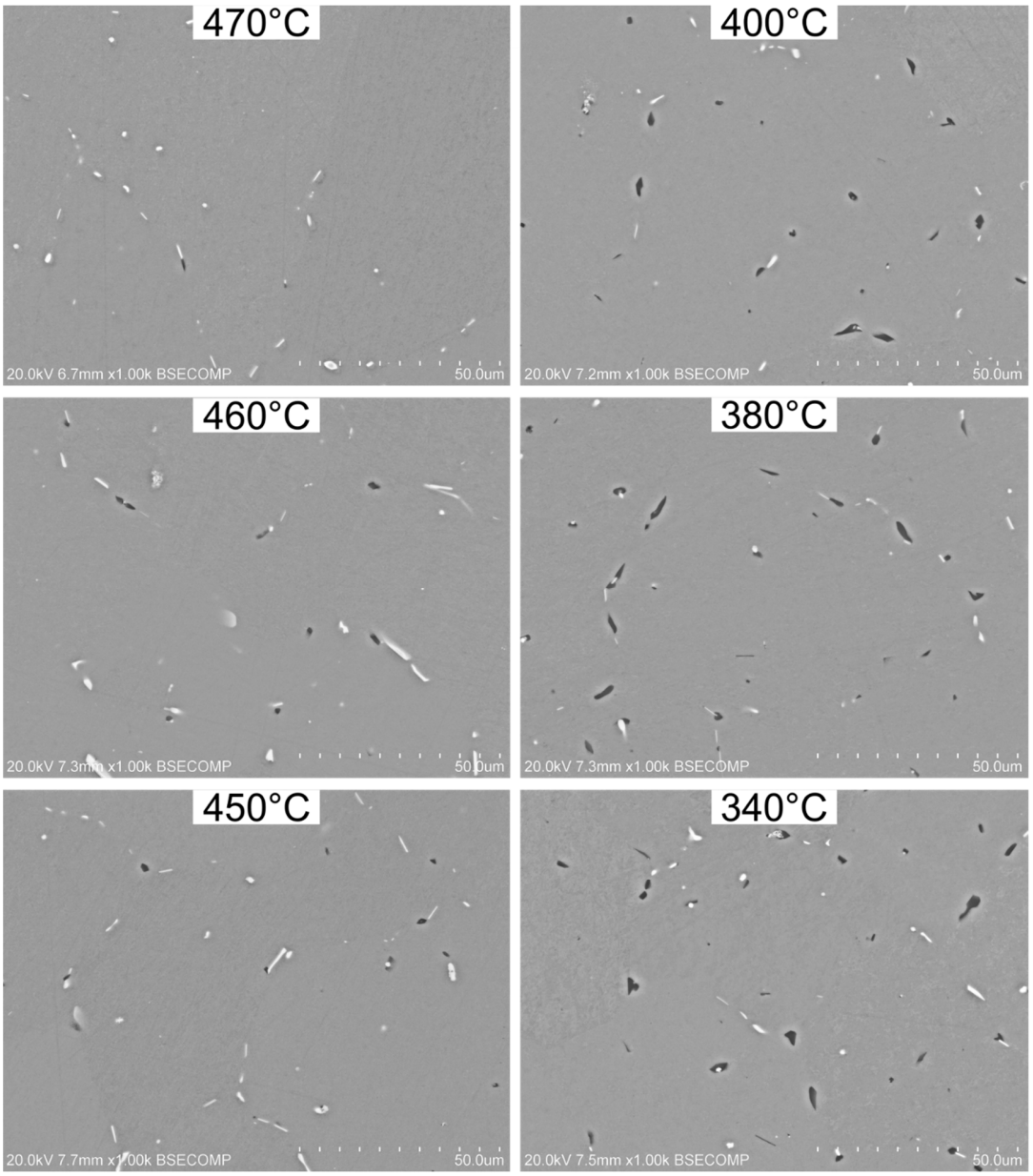

Figure S2: SEM micrographs of the β-Mg_2Si particle structure at different temperatures during cooling 1K/min in alloy FE-12-95 (0.12 wt.% iron). The β-Mg_2Si phases are dark, and the primary Al-Fe-Si phases are bright.

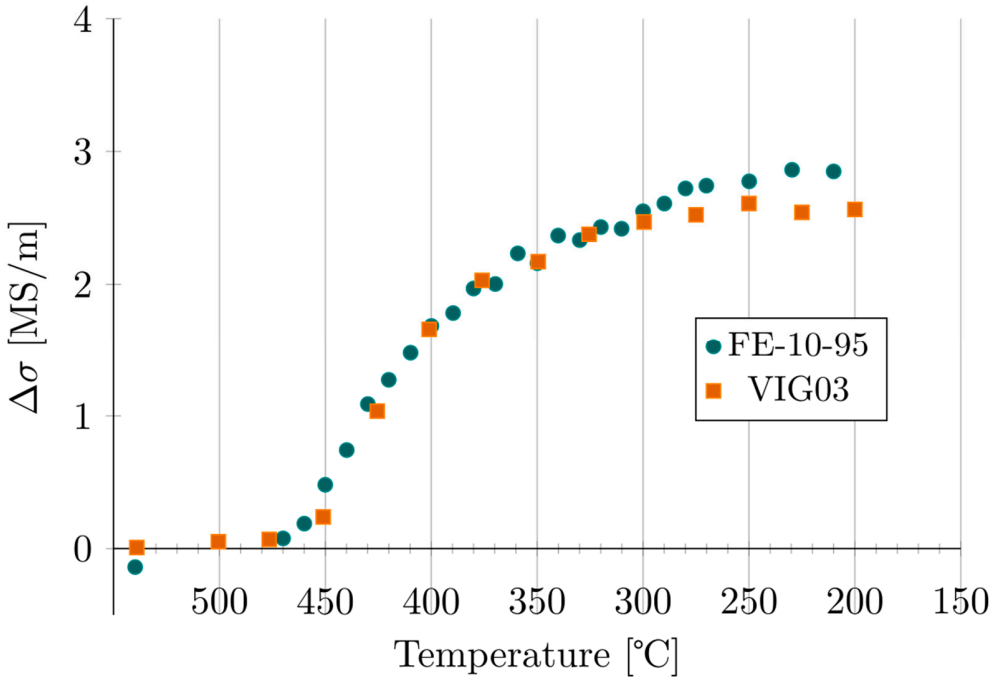

Figure S3: Change in electrical conductivity vs. temperature during cooling 1 K/min for alloy FE-12-95 and VIG03.

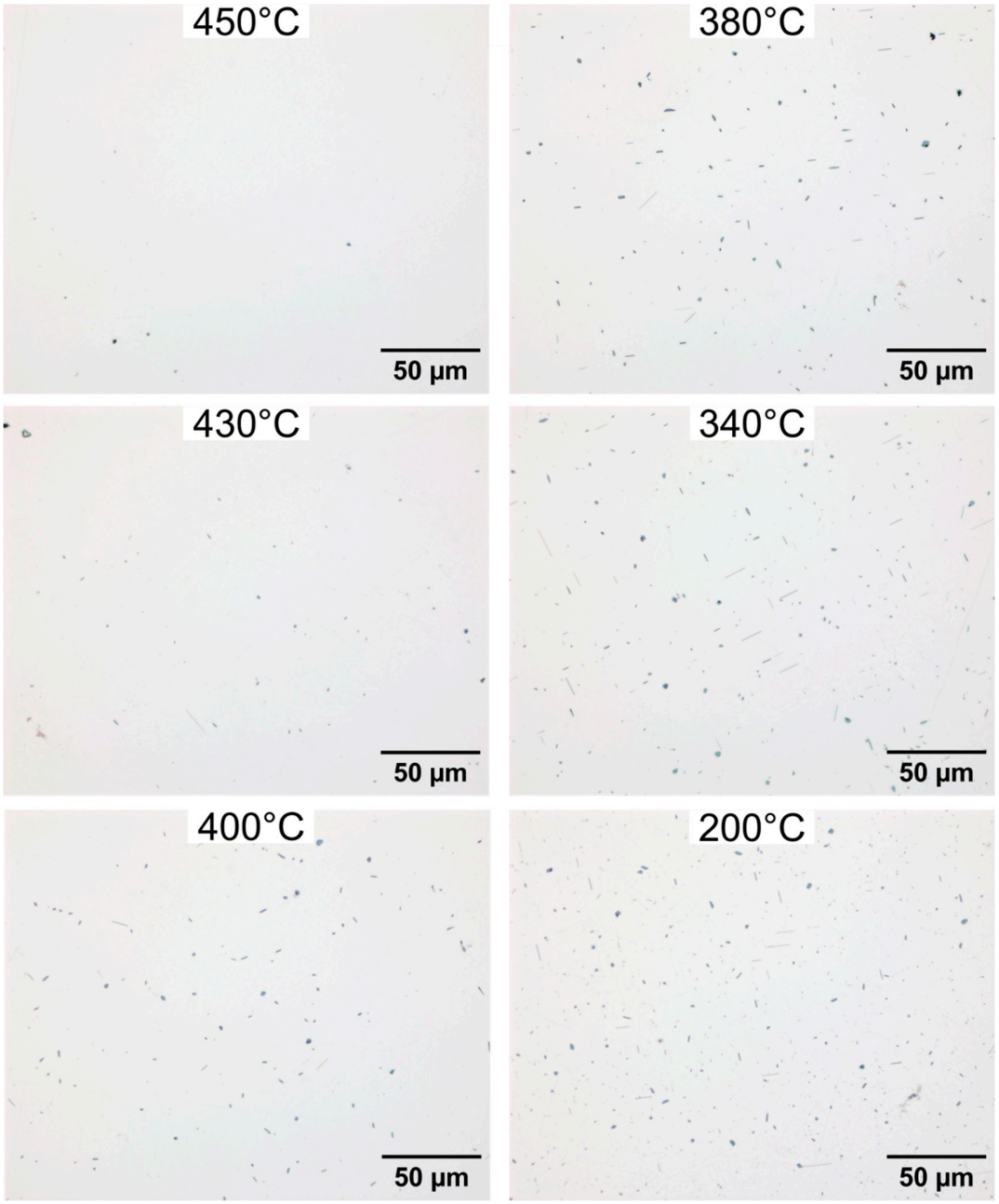

Figure S4: LOM micrographs of samples cooled to different temperatures at 1 K/min for the iron free alloy FE-00-95.