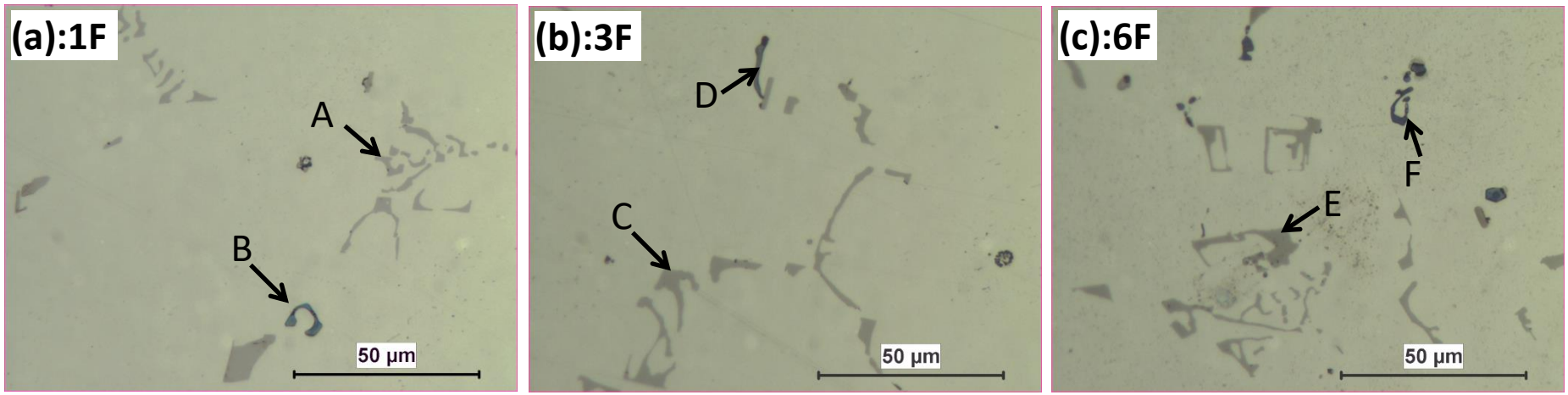

Figure 1 As-cast microstructures of experimental alloys

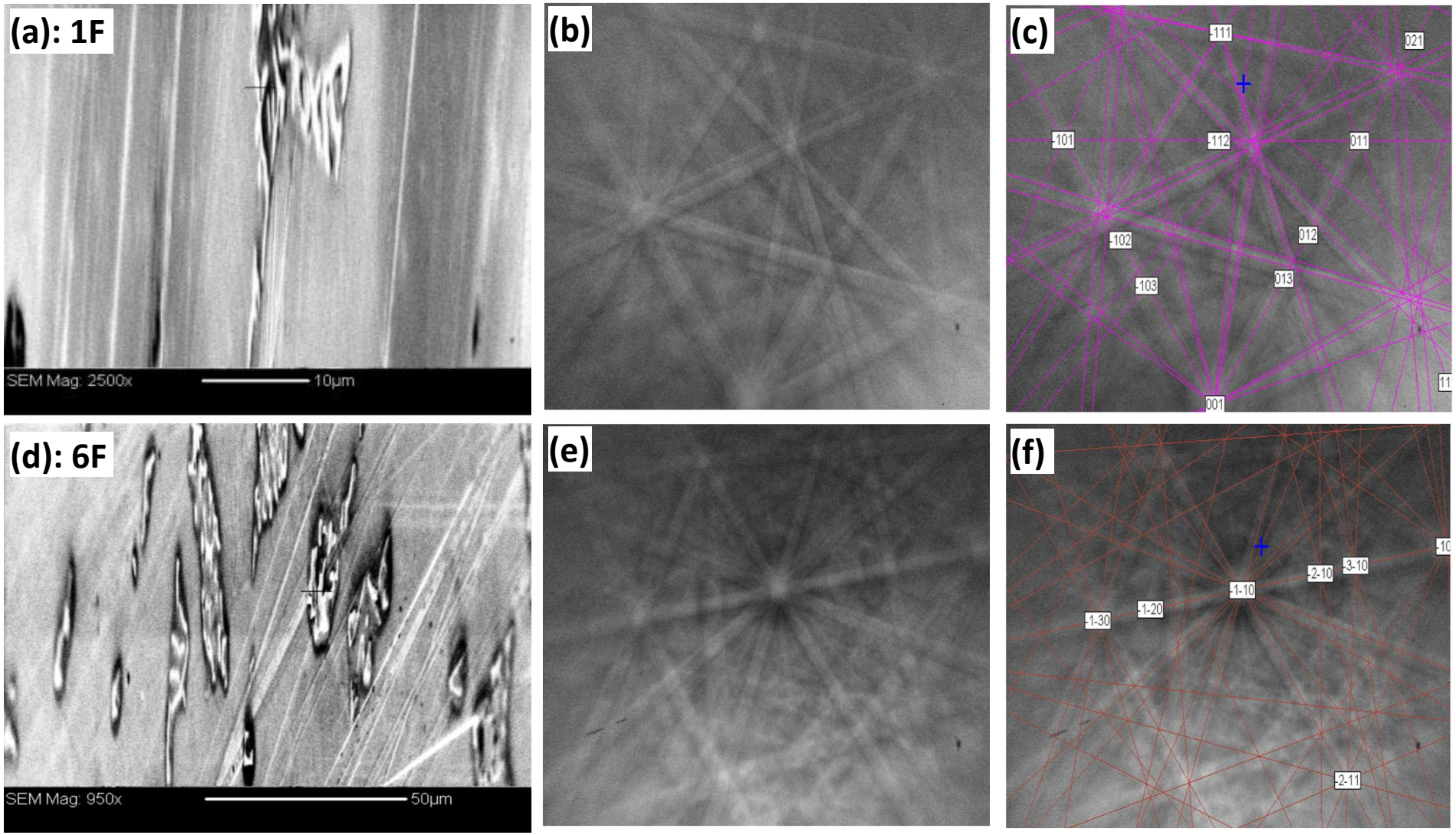

Figure 2 - Intermetallics, EBSD patterns and simulated results for Alloys 1F and 6F:
(a), (b) and (c) is for α-Al(MnFe)Si from Alloy 1F (MAD = 0.205); and
(d), (e) and (f) is for Al_6(MnFe) from Alloy 6F (MAD = 0.347)

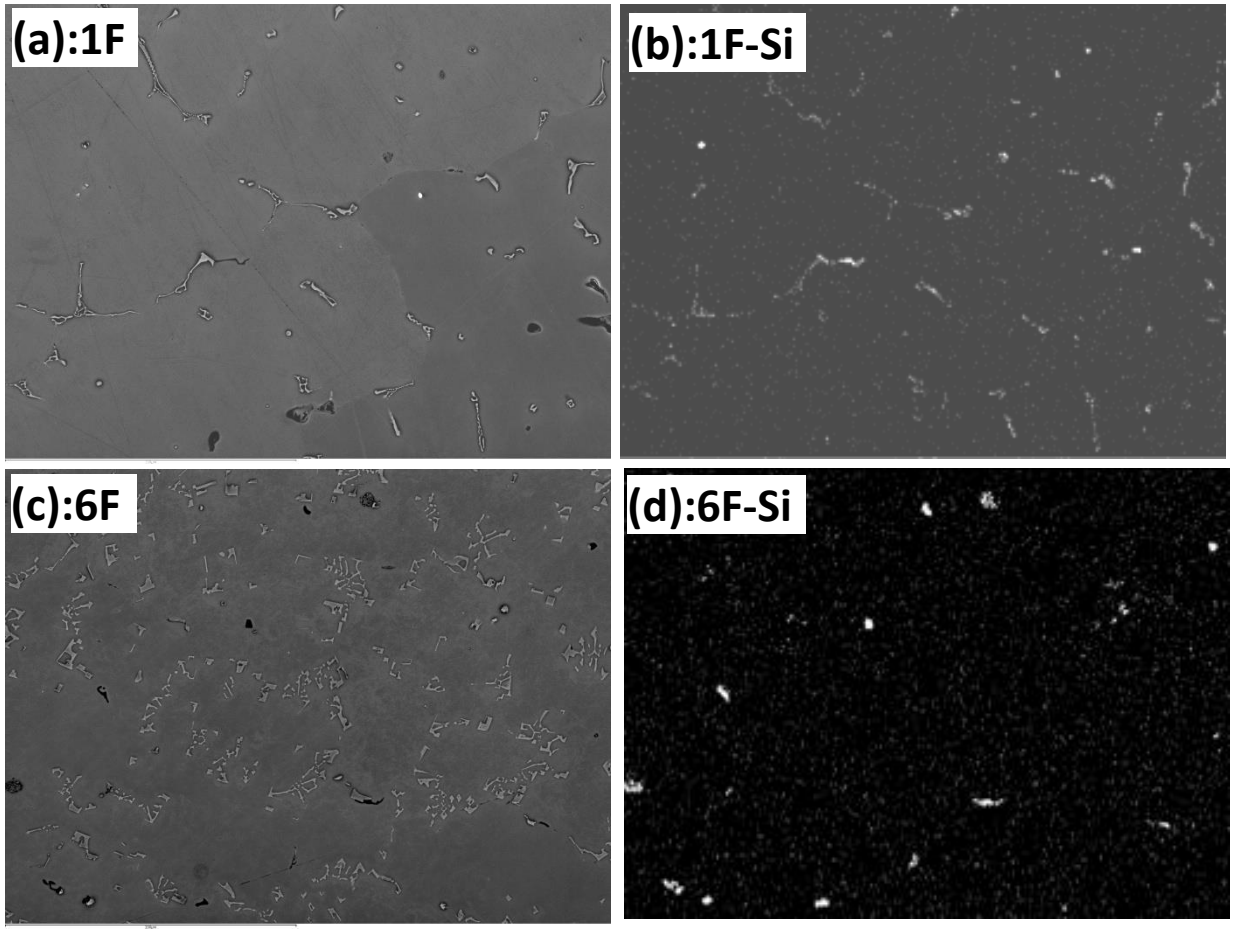

Figure 3 – SEM backscatter images (a and c) and element mapping for Si distribution (b and d) in intermetallics in Alloys 1F and 6F

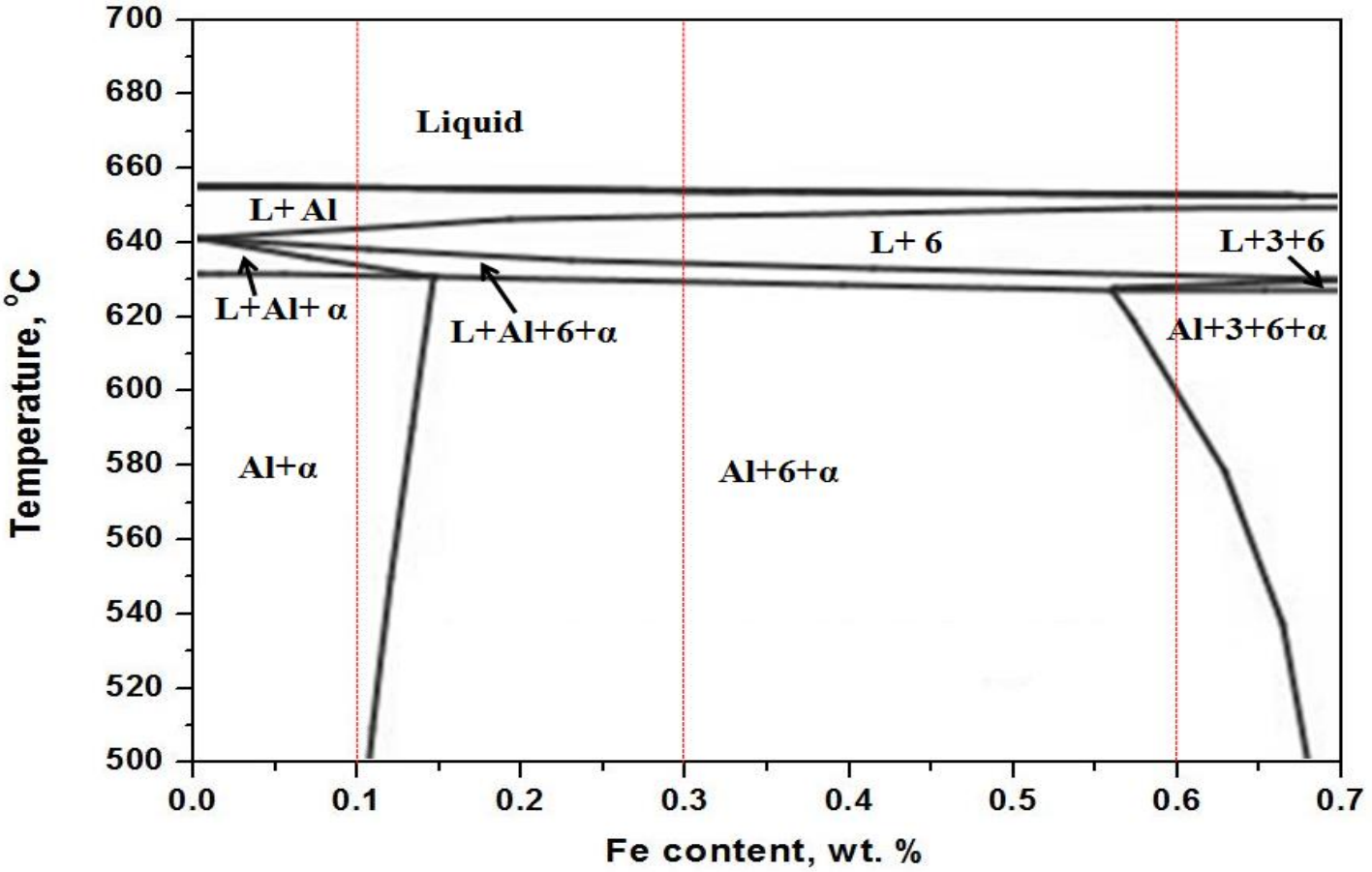

Figure 4 - Simulated Al-Mn-Mg-Fe-Si phase diagram using Thermo-Calc:
L-Liquid; α-$Al_{15}(MnFe)_3Si_2$; 6-$Al_6(MnFe)$; 3-$Al_3(MnFe)$

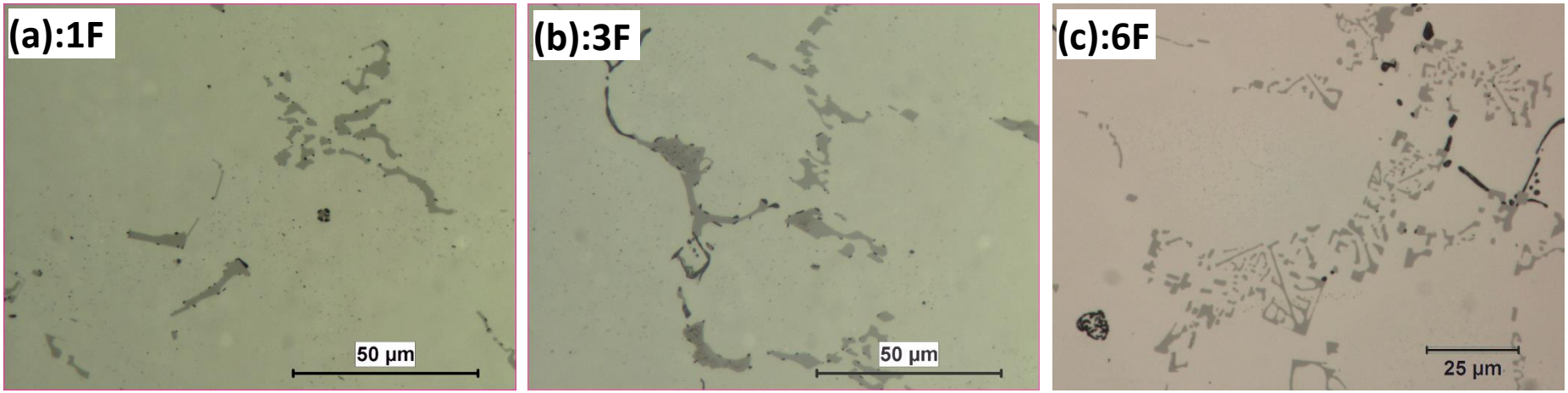

Figure 5 - Microstructures of experimental alloys after 648K (375°C)/48 h (before etched)

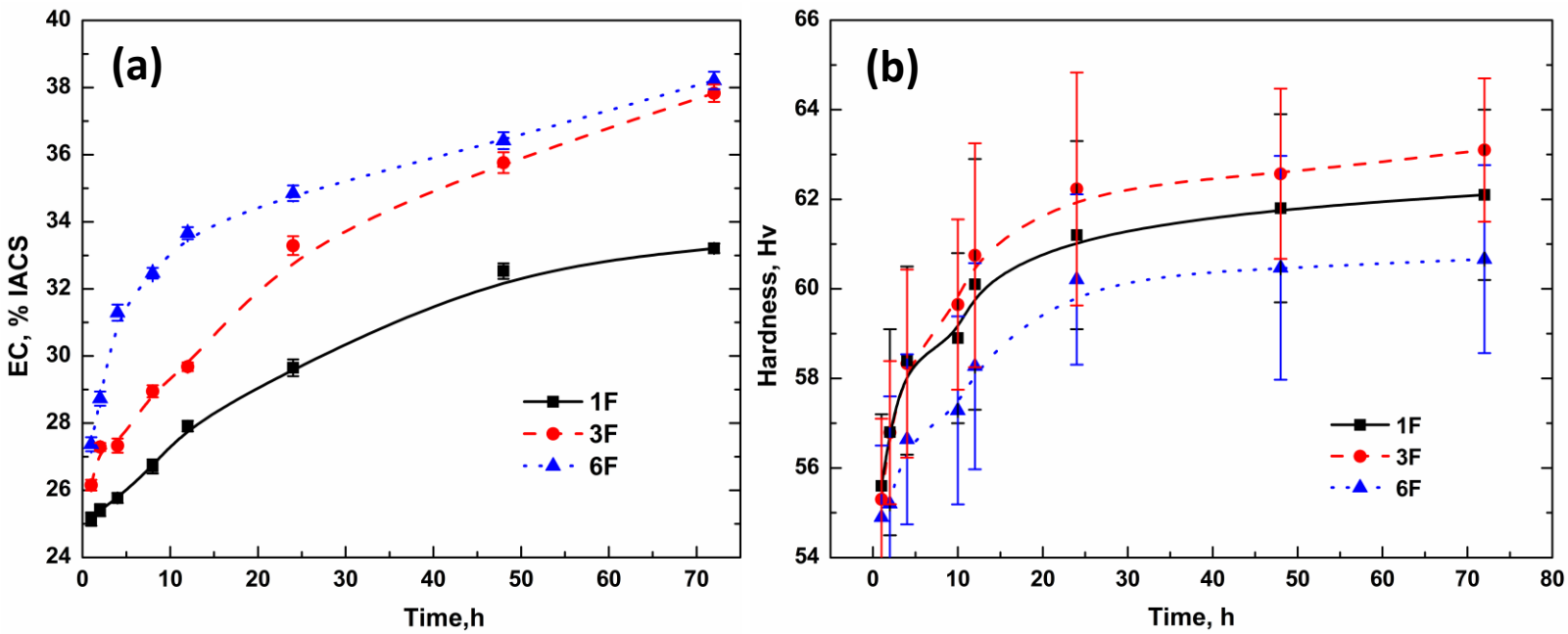

Figure 6 - Evolution of EC (a) and microhardness (b) during the precipitation treatment

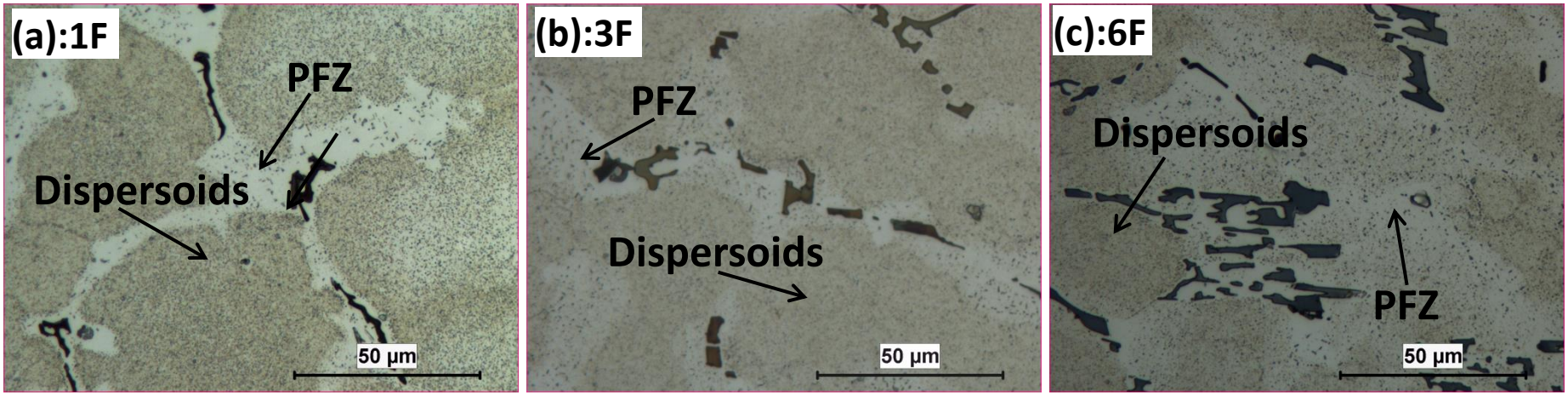

Figure 7 - Microstructure of experimental alloys after 648K (375°C)/48h (after etched)

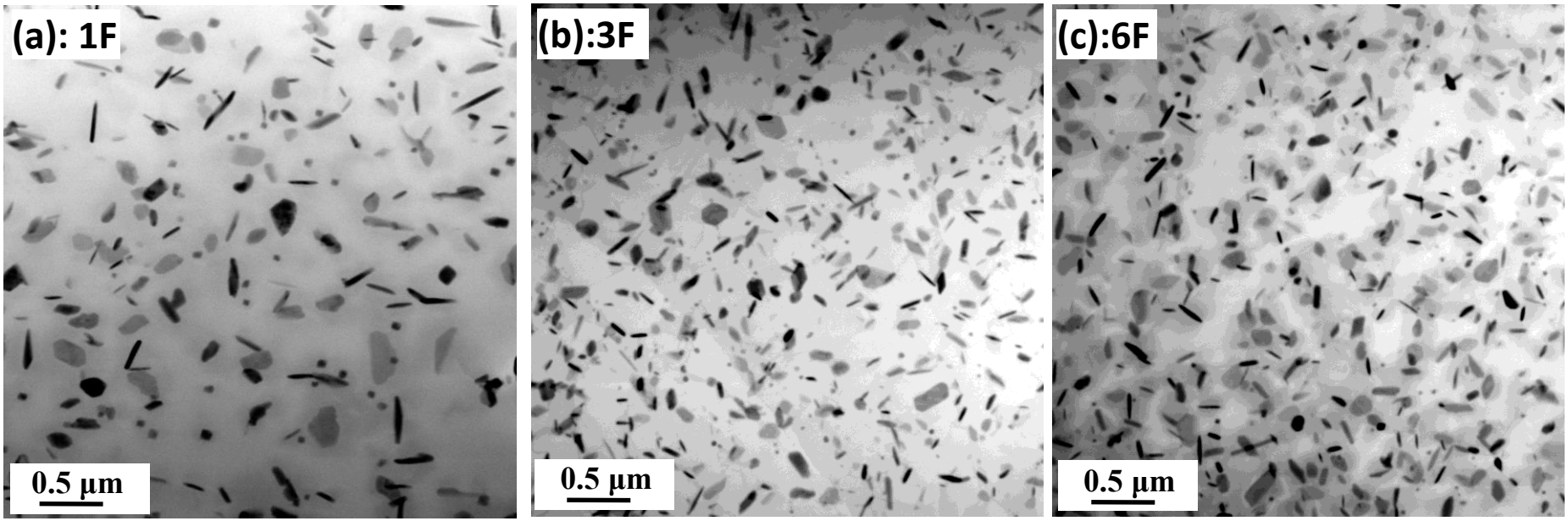

Figure 8 - TEM images of dispersoids in experimental alloys after 648K (375°C)/48h

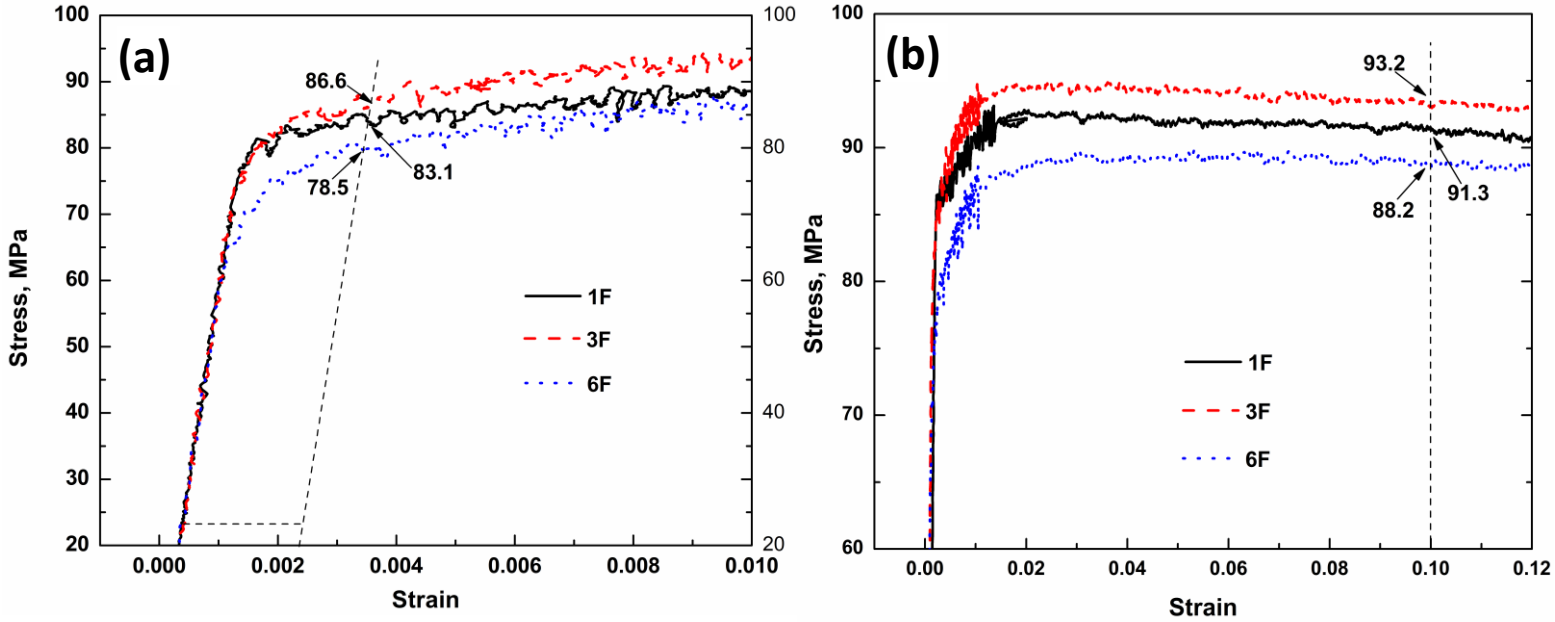

Figure 9 - Evolution of compression strengths at 573K (300°C) after 648K (375°C)/48h:
(a) YS at 0.002 strain and (b) compression strength at 0.1 strain

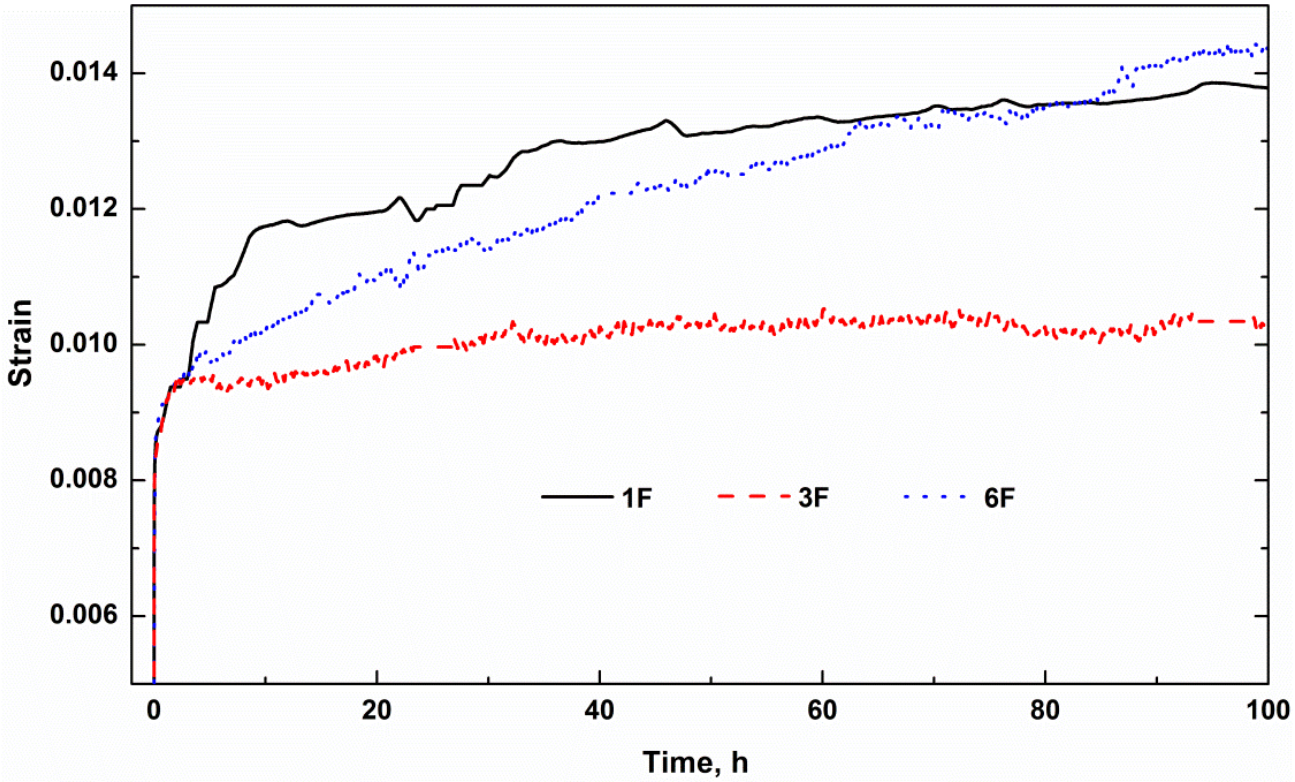

Figure 10 - Creep curves of experimental alloys at 573K (300°C) after 648K (375°C)/48h