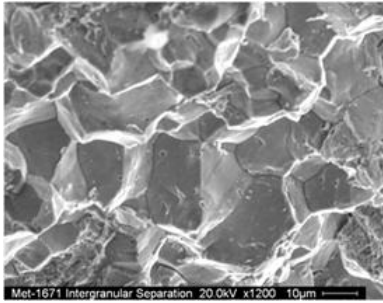
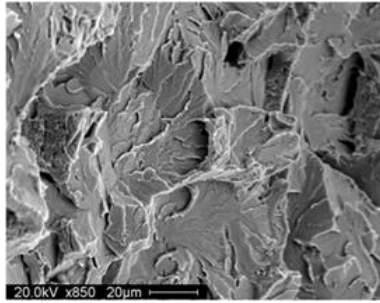


## Effect of corrosion at the micro-structural level

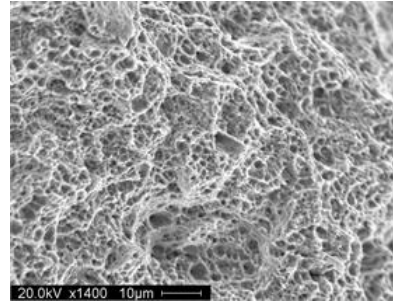
### Fractography



Granular fracture




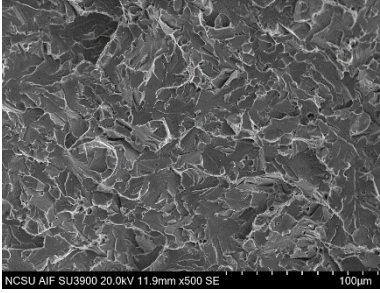
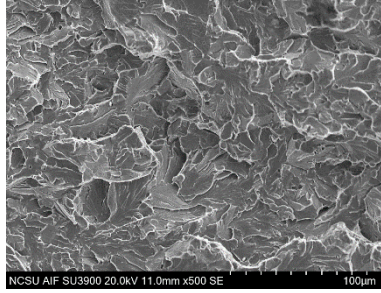

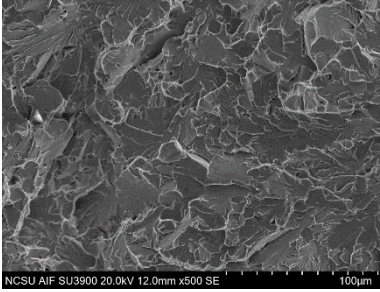
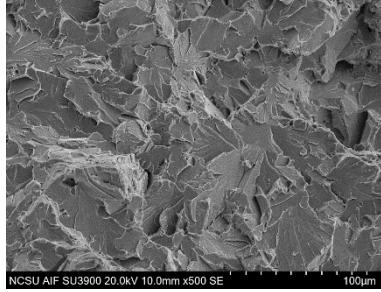

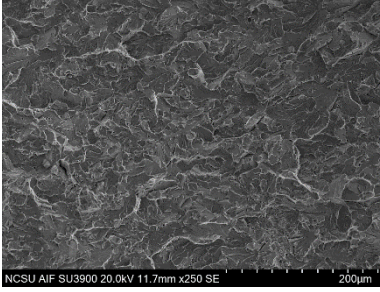
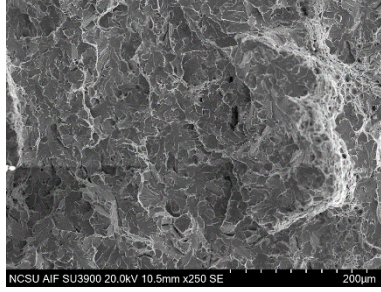
Cleavage fracture



Dimpled fracture

a) Brittle fracture features

b) Ductile fracture features

	Observation Location	Brittle failure	Ductile
Fracture Initiation		 NCSU AIF SU3900 20.0kV 11.9mm x500 SE 100µm	 NCSU AIF SU3900 20.0kV 11.0mm x500 SE 100µm
Center		 NCSU AIF SU3900 20.0kV 12.0mm x500 SE 100µm	 NCSU AIF SU3900 20.0kV 10.0mm x500 SE 100µm
Oposite extreme		 NCSU AIF SU3900 20.0kV 11.7mm x250 SE 200µm	 NCSU AIF SU3900 20.0kV 10.5mm x250 SE 200µm