

Table S1: Typical grain morphology information for FP-10 sample drawn from the Olympus stream analysis software

Reference	FP-10	
Standard	ASTM E 112-13	
Grain Size Number G	8.35	
Mean Intercept Length [ $\mu\text{m}$ ]	17.74	
Elongation	0.98	
Average Number of Intercepts	180.00	
Number of Intercepts per Unit Length [1/mm]	56.36	

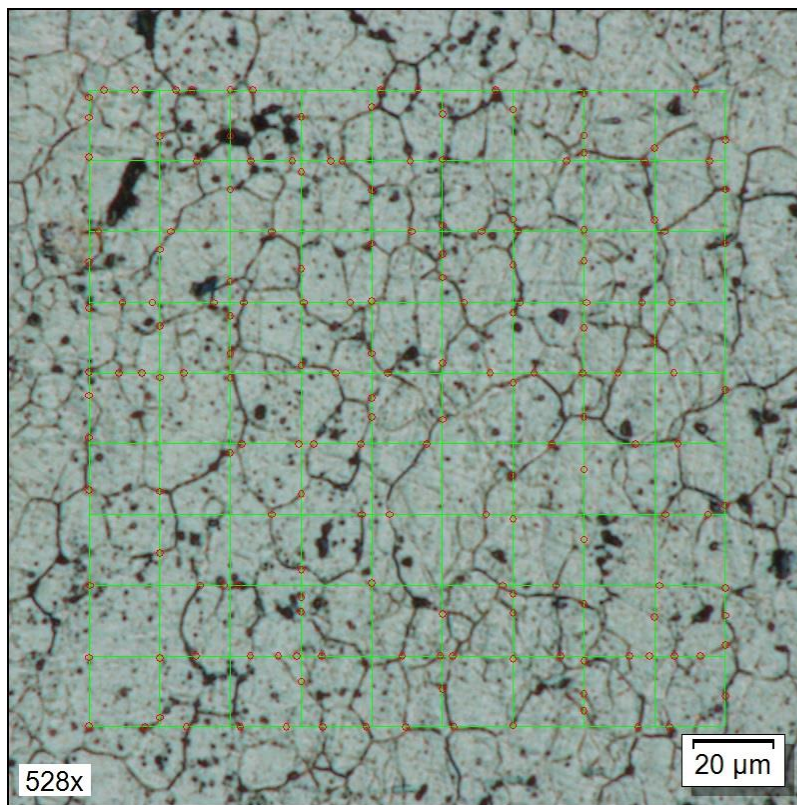


Figure S1: Optical micrograph for FP-10 sample to demonstrate the method adopted to measure the mean grain size

Table S2: Typical grain morphology information for FP-15 sample drawn from the Olympus stream analysis software

Reference	FP-15
Standard	ASTM E 112-13
Grain Size Number G	8.58
Mean Intercept Length [ $\mu\text{m}$ ]	16.38
Elongation	0.91
Average Number of Intercepts	195.00
Number of Intercepts per Unit Length [1/mm]	61.06

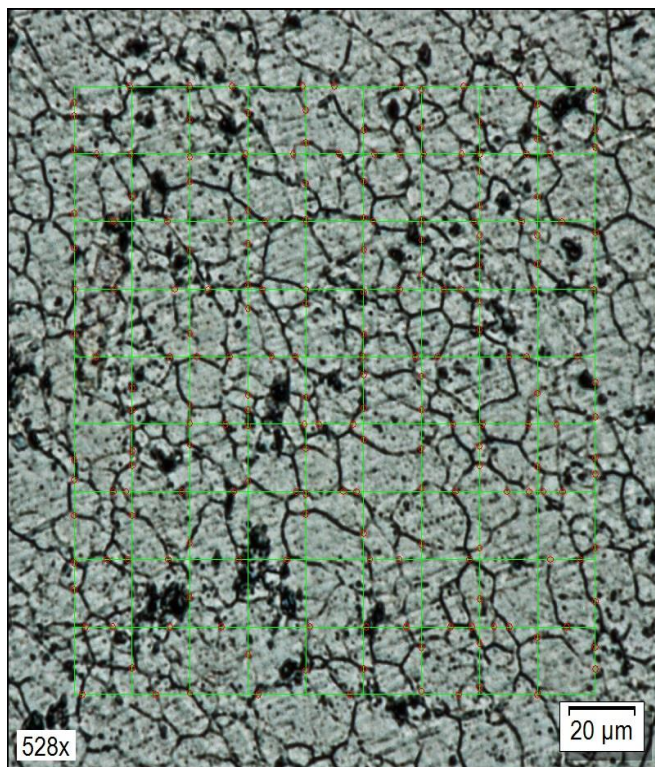


Figure S2: Optical micrograph for FP-15 sample to demonstrate the method adopted to measure the mean grain size

Table S3: Typical grain morphology information for FP-25 sample drawn from the Olympus stream analysis software

Reference	FP-25	
Standard	ASTM E 112-13	
Grain Size Number G	8.72	
Mean Intercept Length [ $\mu\text{m}$ ]	15.58	
Elongation	1.09	
Average Number of Intercepts	205.00	
Number of Intercepts per Unit Length [1/mm]	64.19	

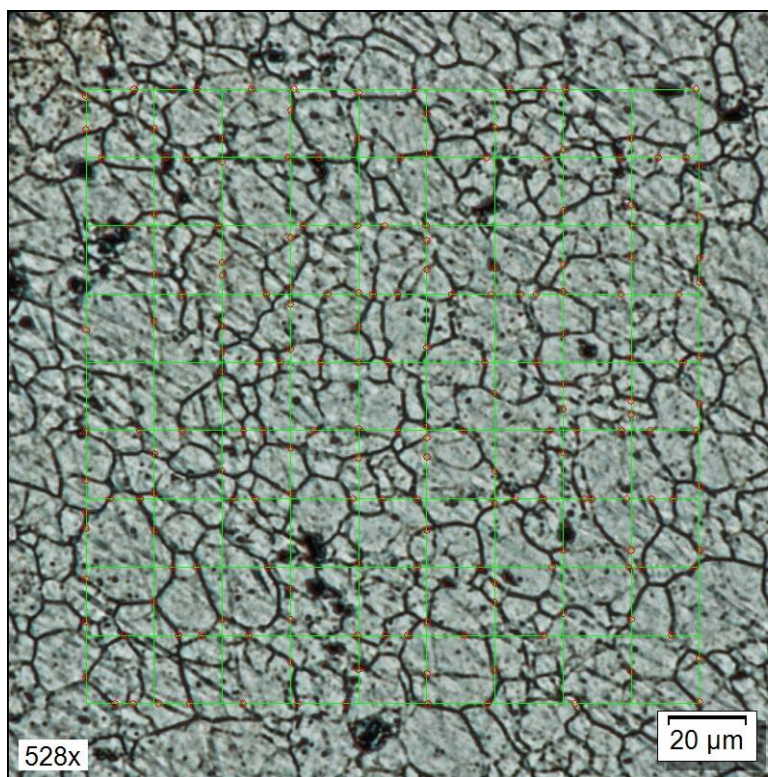


Figure S3: Optical micrograph for FP-25 sample to demonstrate the method adopted to measure the mean grain size



Table S4: Typical grain morphology information for the base sample drawn from the Olympus stream analysis software

Reference	BASE
Standard	ASTM E 112-13
Grain Size Number G	3.54
Mean Intercept Length [ $\mu\text{m}$ ]	93.93
Elongation	0.74
Average Number of Intercepts	68.00
Number of Intercepts per Unit Length [1/mm]	10.65

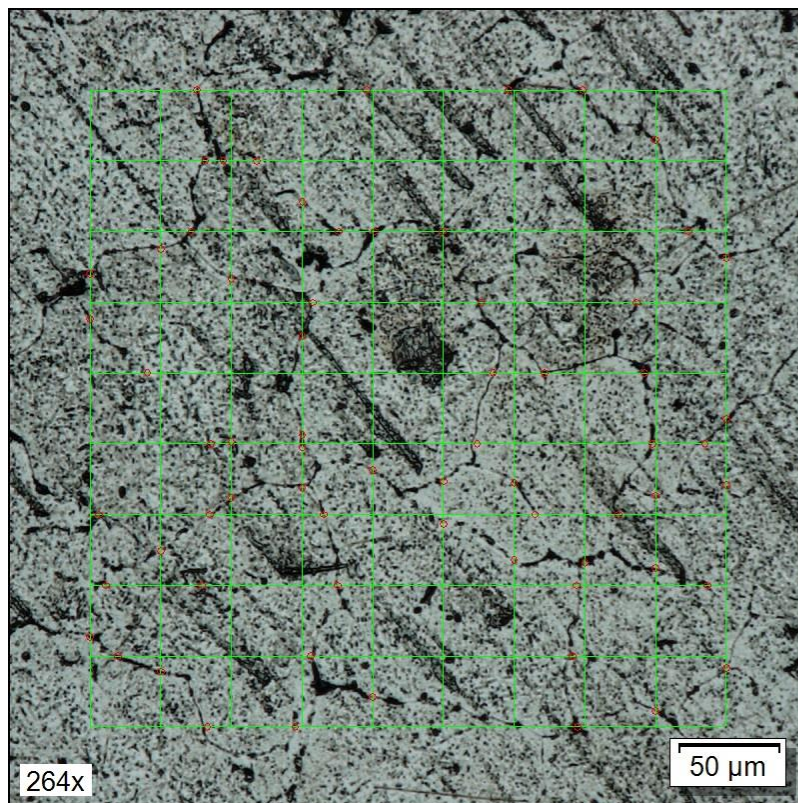


Figure S4: Optical micrograph for base sample to demonstrate the method adopted to measure the mean grain size