

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

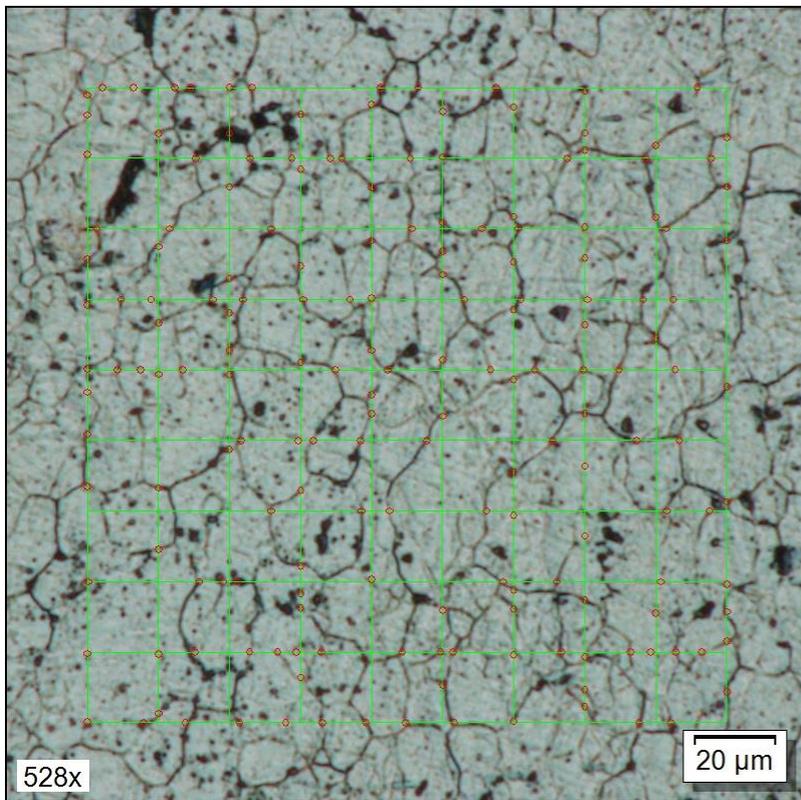


Figure S1: Optical micrograph for FP-10 sample to demonstrate the method adopted to measure the mean grain size

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

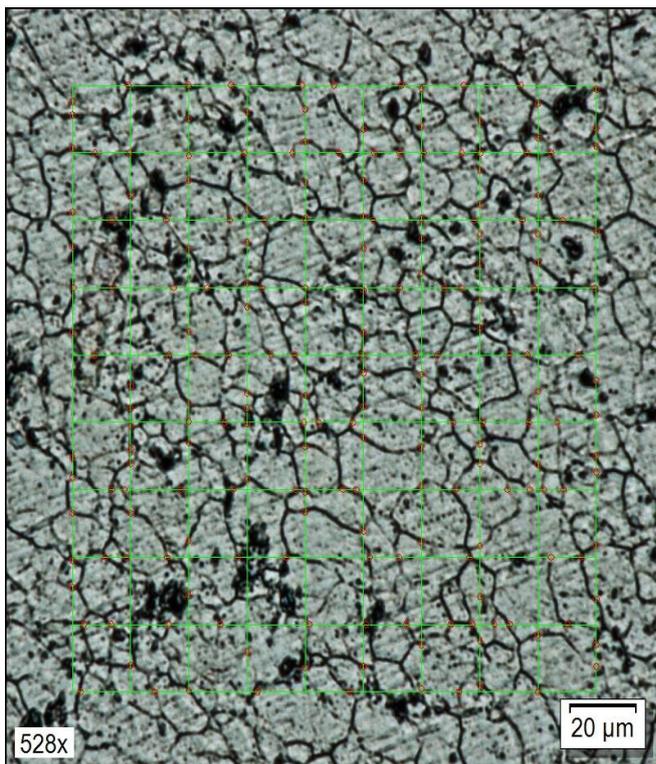


Figure S2: Optical micrograph for FP-15 sample to demonstrate the method adopted to measure the mean grain size

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

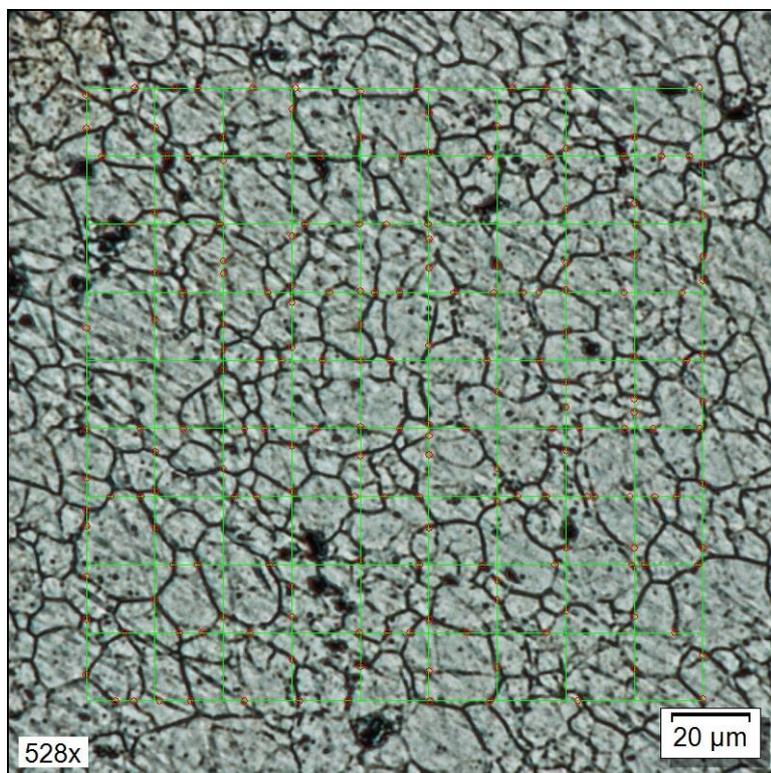


Figure S3: Optical micrograph for FP-25 sample to demonstrate the method adopted to measure the mean grain size

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 [ $1/\text{mm}$ ]	10.65

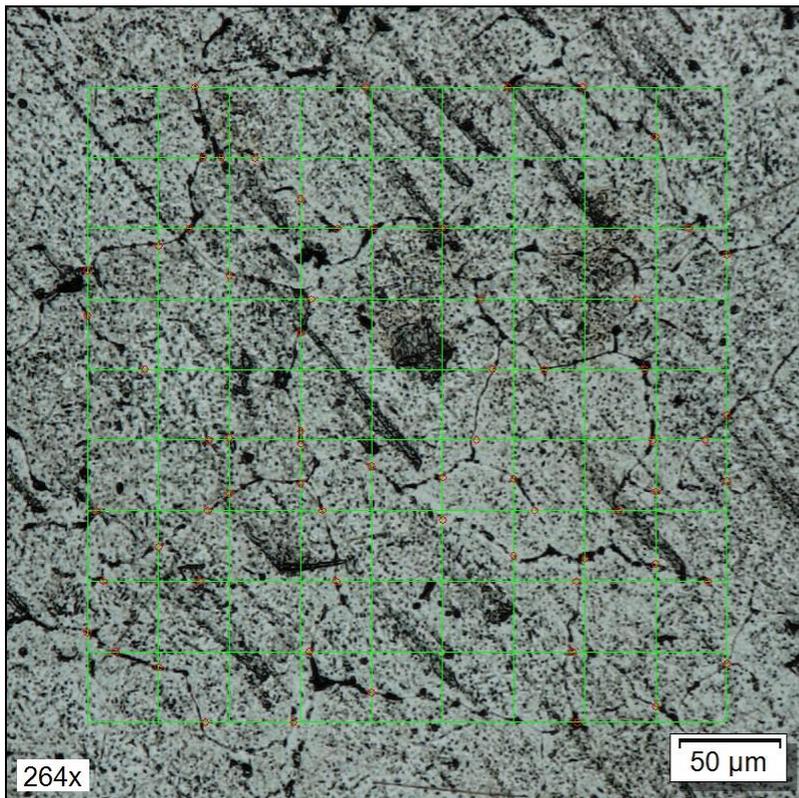


Figure S4: Optical micrograph for base sample to demonstrate the method adopted to measure the mean grain size