Table S1. Detailed particle size distributions of four Ni powder specimens measured using a Mastersizer 3000E (mean of 3 measurements). D[3,2] denotes the Sauter mean diameter; D[4,3], the volume-mean diameter; and Dv10/Dv50/Dv90, the volume-based percentile diameters. Span = (D90 − D10)/D50, and geometric specific surface area (Geo. SSA) = 6/(ρ·D[3,2]).

Specimen	D[3,2] (μm)	D[4,3] (μm)	Dv10 (μm)	Dv50 (μm)	Dv90 (μm)	Span	Uniformity	Geo. SSA (m^2/g)
Ni-S-25	34.2	35.6	26.9	34.9	45.3	0.527	0.166	0.0200
Ni-S-32	40.1	41.5	31.9	40.8	51.7	0.485	0.153	0.0171
Ni-D-25	34.7	36.4	26.6	35.5	47.4	0.585	0.181	0.0197
Ni-D-32	44.0	46.1	33.8	45.1	59.8	0.578	0.180	0.0156