

Table S7 Chemical compositions of starting and recovered samples.

Run No. (Sample)	Element concentration* [at%]									
	Sn	error	Ni	error	Fe	error	Mn	error	Si	error
Starting material (Sn)	99.96	±0.23	-		-		0.04	±0.02	-	
AK11 (Sn) bottom	99.94	±0.23	-		-		0.06	±0.03	-	
AK11 (Sn) side	99.93	±0.26	-		-		0.06	±0.03	-	
AK14 (Sn) bottom	99.97	±0.22	-		-		0.03	±0.02	-	
AK14 (Sn) side	99.95	±0.23	-		-		0.05	±0.03	-	
Starting material (Ni)	-		99.66	±0.23	0.11	±0.06	0.17	±0.10	0.06	±0.02
AK12 (Ni) bottom	-		99.61	±0.26	0.14	±0.05	0.20	±0.10	0.06	±0.02
AK12 (Ni) side	-		99.49	±0.26	0.12	±0.05	0.35	±0.11	0.04	±0.01
AK13 (Ni) bottom	-		99.55	±0.26	0.11	±0.03	0.28	±0.10	0.06	±0.02
AK13 (Ni) side	-		99.56	±0.24	0.13	±0.05	0.26	±0.08	0.05	±0.02
Starting material (Fe)	-		-		99.93	±0.23	0.01	±0.09	0.06	±0.02
AK15 (Fe) bottom	-		-		99.95	±0.23	0.02	±0.10	0.03	±0.01
AK15 (Fe) side	-		-		99.92	±0.33	0.02	±0.11	0.06	±0.01
AK16 (Fe) bottom	-		-		99.93	±0.26	0.01	±0.12	0.06	±0.02
AK16 (Fe) side	-		-		99.94	±0.33	0.01	±0.13	0.05	±0.02
AK17 (Fe) bottom	-		-		99.94	±0.23	0.02	±0.14	0.04	±0.01
AK17 (Fe) side	-		-		99.91	±0.23	0.02	±0.15	0.07	±0.02
AK18 (Fe) bottom	-		-		99.94	±0.15	0.01	±0.16	0.05	±0.01
AK18 (Fe) side	-		-		99.92	±0.22	0.02	±0.17	0.06	±0.02
AK19 (Fe) bottom	-		-		99.95	±0.22	0.01	±0.18	0.40	±0.02
AK19 (Fe) side	-		-		99.93	±0.19	0.02	±0.19	0.05	±0.02
AK20 (Fe) bottom	-		-		99.93	±0.32	0.01	±0.20	0.06	±0.02
AK20 (Fe) side	-		-		99.95	±0.25	0.01	±0.21	0.04	±0.01

*Each element concentration corresponds to averaged value of 4 analysed points.