

Supporting Information

Table S1. Elemental composition

Table S1. Elemental composition in the EDS spectra 1, 2, 3, 4, 5 and 6 corresponding to the points shown in the TEM micrograph of HTE75 in Figure 3. The spectrum 7 in the table corresponds to a point in the grain boundary region which has not been shown in the Figure 3.

Spectrum	In stats.	N	O	Al	Si	Ho	Er	Tm	Total
Spectrum 1	Yes	19.78	10.80	3.91	49.00	3.26	9.37	3.88	100.00
Spectrum 2	Yes	19.12	3.64	13.20	52.74	1.90	6.07	3.32	100.00
Spectrum 3	Yes	23.13	5.88	11.02	48.93	2.04	5.40	3.61	100.00
Spectrum 4	Yes	21.95	7.00	10.72	50.93	2.38	4.67	2.35	100.00
Spectrum 5	Yes	20.31	7.46	10.07	50.18	2.36	6.26	3.36	100.00
Spectrum 6	Yes	14.63	9.06	12.25	39.60	7.09	12.49	4.87	100.00
Spectrum 7	Yes	20.71	5.55	12.87	48.96	1.80	6.75	3.36	100.00
Mean		19.95	7.06	10.58	48.62	2.98	7.29	3.53	100.00
Std. deviation		2.70	2.36	3.16	4.21	1.88	2.73	0.75	
Max.		23.13	10.80	13.20	52.74	7.09	12.49	4.87	
Min.		14.63	3.64	3.91	39.60	1.80	4.67	2.35	