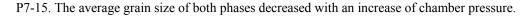
Supplementary Materials: A cost-effective approach to $optimizing\ microstructure\ and\ magnetic\ properties\ in\ Ce_{17}Fe_{78}B_6$ alloys

Xiaohua Tan, Heyun Li, Hui Xu, Ke Han, Weidan Li, Fang Zhang

Figure S1 shows the grain size distribution of Ce₂Fe₁₄B and CeFe₂ phases in samples P2-15, P5-15 and



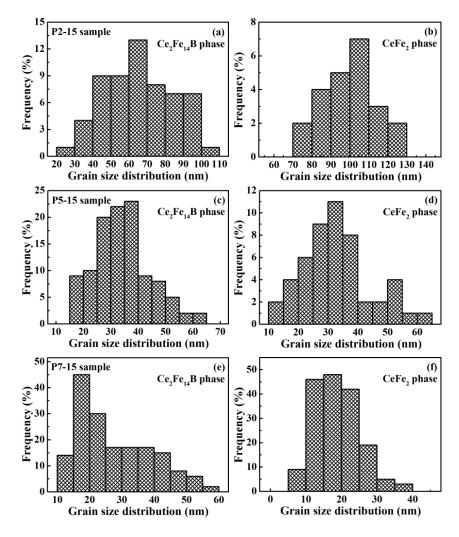


Figure S1. Grain size distribution of Ce₂Fe₁₄B and CeFe₂ phases in as-spun Ce₁₇Fe₇₈B₆ ribbons: (a) (b) P2-15 sample, (c) (d) P5-15 sample, and (e) (f) P7-15 sample.

Table S1 The grain size (d) of Ce₂Fe₁₄B and CeFe₂ phases of Ce₁₇Fe₇₈B₆ ribbons prepared at various chamber pressure ($P_{chamber}$) and the wheel speed (ν) of 15 m·s⁻¹.

| Samples | P _{chamber} (MPa) | ν (m·s ⁻¹) | d _{Ce2Fe14B} (nm) | d _{CeFe2} (nm) |
|---------|----------------------------|------------------------|----------------------------|-------------------------|
| P2-15 | 0.02 | 15 | 66 ± 18 | 100 ± 13 |
| P5-15 | 0.05 | 15 | 34 ± 9 | 32 ± 10 |
| P7-15 | 0.07 | 15 | 27 ± 11 | 19 ± 6 |