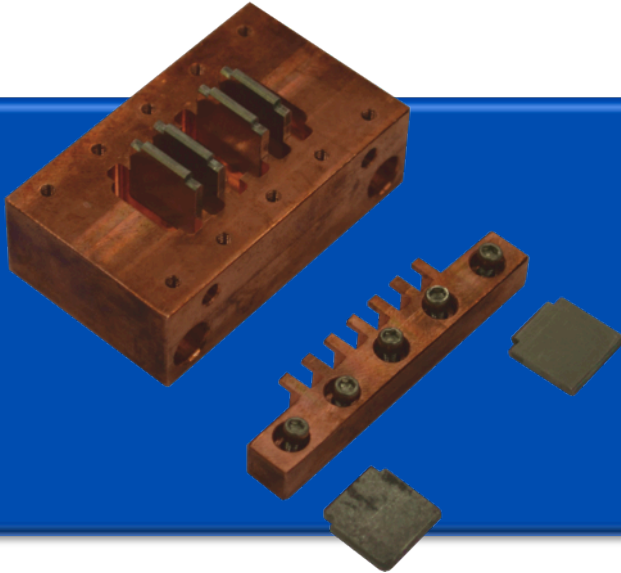


# Textured Dysprosium & Gadolinium Poles

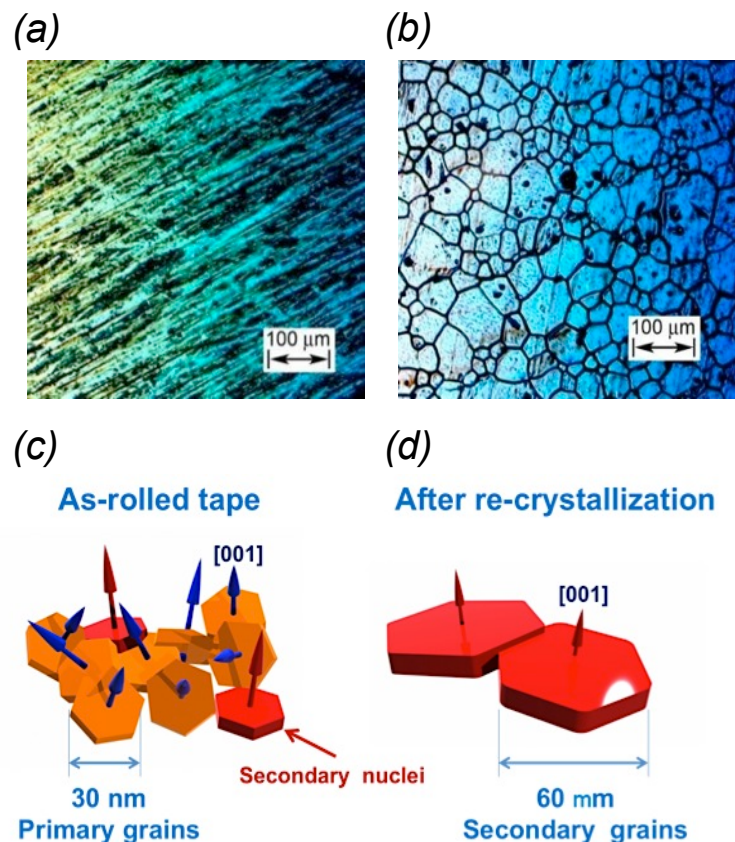


- Tx Dy ferromagnetic saturation inductance approaches 3 Tesla at cryogenic temperatures (below 90 K)
- Magnetic anisotropy (easy axis vs. hard axis) is better than 10
- Tx Dy and Tx Gd are available in foil form or as custom shaped laminated poles

Textured dysprosium and gadolinium foils are being synthesized with the proprietary variation of rolling-recrystallization method, where the cold rolled foil undergoes an annealing cycle to develop an in-plane oriented secondary grain structure.

Textured Dy and Gd properties mimic the performance of the single crystals, while relatively inexpensive to produce.

**Pictured at right:** the optical surface micrograph of as-rolled Dy foil (a); the same foil after annealing cycle (b) and; schematic illustration of the grain structure transformation during secondary recrystallization process (c and d, respectively).



Other options are available upon request.  
For purchasing information, please email us  
at [info@radiabeam.com](mailto:info@radiabeam.com).