

ICS 77.120.99
CCS H65

XB

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

XB/T 533-2026

**Terbium hydride and dysprosium hydride for grain boundary
diffusion of rare earth permanent magnetic materials**

稀土永磁材料晶界扩散用氢化铽、氢化镝

(English Translation)

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Foreword

XB/T 533-2026 is a recommended industry standard of the People's Republic of China in the Rare Earth sector, approved and issued by the Ministry of Industry and Information Technology on 15 July 2026, with effect from 1 February 2027.

Classification: ICS 77.120.99; CCS H65.

1 Scope

XB/T 533-2026 specifies terbium hydride and dysprosium hydride for the grain boundary diffusion of rare earth permanent magnetic materials. The document covers classification and designations, technical requirements, test methods, inspection rules, packaging, marking, transport, storage and accompanying documents. It applies to terbium hydride and dysprosium hydride powders prepared by a hydrogen treatment process and used in producing grain boundary diffusion rare earth permanent magnetic materials.

The standard will be used by producers of rare earth hydride powders, by manufacturers of rare earth permanent magnets who buy them, by test laboratories and inspection bodies, and by purchasers who need a technical basis for supply contracts. It is voluntary, as the /T in the code indicates, and applies where a contract or another rule refers to it. The Ministry of Industry and Information Technology approved and issued it on 15 July 2026, and it takes effect on 1 February 2027. It is a new document and does not replace an earlier edition.