

Summary on the standard for Specification for Aluminium Ingots Alloy for Bearings IS 6754

An aluminium bearing is a type of bearing material made primarily from aluminium alloys, often combined with other elements like tin, copper, or silicon. Aluminium bearings are known for their **lightweight, good thermal conductivity, and high resistance to corrosion**. These properties make them suitable for applications with high speeds and moderate loads, such as automotive engines, compressors, and various industrial machinery.

IS 6754 is the Indian Standard that specifies requirements for aluminium ingots used in the **manufacture of bearings**. It outlines the chemical composition, physical properties, and quality requirements to ensure aluminium ingots are suitable for bearing applications, providing durability and proper performance under load.

IS 6754 specifies the requirement of the **chemical composition and various shape and sizes** of the aluminium ingot for bearings.

Aluminium ingots produced according to IS 6754 are specifically used in the production of bearings for machinery, ensuring reliable performance, strength, and wear resistance in various industrial applications.

Aluminum bearings are widely used in **Automotive Engines, Crankshaft and camshaft bearings, Compressors and Pumps and Industrial Machinery** where lightweight and heat dissipation are important.