IS 736:1986 - Specification for wrought aluminium and aluminium alloy plate for general engineering purposes

Aluminium is a light, ductile and corrosion resistant material. Hence, applications of **Aluminium plates & sheets** are versatile and used in the industries such as: **construction, ship building, automobile, chemical, Aircraft**, etc. Aluminium Plates are available in numerous grades and the properties of these grades are different for different grades and these grades can be selected based on the requirements of the applications

The Indian standard**, IS 736:1986**, specifies **the chemical and mechanical properties of various grades** of **Aluminium and Aluminium Alloy Plates**. The mechanical properties of Aluminium plates, such as: **Tensile Strength, Proof Stress and %elongation**, are depend on the **type of application** for which it is used. Hence, this standard specifies mechanical properties of various grades of Aluminium plates. Further, this standard specifies the mechanical properties of various grades of Aluminium plates based on their **temper condition** (such as: **As Manufactured, Annealed, Strain Hardened and Solution Heat treated- with natural ageing and with precipitation treatmen**t) in which the Aluminium plates are supplied.

The standard**, IS 737:1986** also specifies the **dimensions** and their tolerances of various sizes of **Aluminium plates**. Moreover, the standard specifies the procedure to be followed in selecting the samples of Aluminium plates and the methods of testing of these plates for various requirements specified in the standard. Finally, the standard also specifies the requirements of markings to be marked on these plates.

From the above, it can be concluded that the standard, **IS 736:1986 - Specification for Wrought Aluminium and Aluminium alloy plates for general engineering purposes** is a complete standard and is very useful for the user, in **selecting the right grade of Aluminium plate** for the application, for which it is used.