



IS 3623 : 2024 GUIDE AND RUBBING ROPES – SPECIFICATION

Guide ropes are extensively used in mining shafts up to 1 000 metres in depth. Guide ropes are suspended from the pit head frame and at the pitbottom either tensioning weights are hung or the guide ropes are suitably clamped.

Rubbing ropes are special guide ropes provided between the cages in deep shaft or in shafts where clearances are small. Both round rod construction as well as half-locked coil construction are used for guide rope. Out of two Locked coil ropes are favoured because they have a smooth and larger wearing surface and offer a greater resistance to corrosion as it is not so easy for water to enter the interstices between the wires.

Indian Standard IS **3623**, developed by the Bureau of Indian Standards (BIS), specifies the **requirements for raw material** used, Lubrication, workmanship, dimensional and various tests to ensure the quality of product.

The standard specify material requirement like **method of manufacturing, chemical composition** of steel also physical properties of raw material ie tensile strength.

The standard specify the **tensile and reverse bend test, Breaking Load Test** to ensure strength and safety of ropes.