



**Summary of IS 4397: 1999**  
**(Cold - Rolled Carbon Steel Strips for Ball and Roller Bearing Cages Retainers)**

IS 4397:1999 specifies requirements for cold-rolled carbon steel strips used in manufacturing ball and roller bearing cages/retainers. These components are critical for ensuring smooth operation, durability, and reliability of bearings in various industrial and automotive applications.

The specification has classified the Cold rolled Carbons steel Strips into two grades Deep Draw (DD) and Extra Deep Draw (EDD) quality for which the standard defines specific alloy compositions for each grade, these materials are particularly valued for their drawn quality, Dimensional Accuracy , Surface Quality , Workability and Fatigue Resistance , for which the specification has tailored made and ensured that the product meet the expectation of the manufacturer in all the aspects with desired mechanical properties and ensure performance under load.

By addressing these parameters, IS 4397:1999 ensures that cold-rolled carbon steel strips used in ball and roller bearing cages/retainers deliver consistent performance, durability, and reliability for a wide range of industrial and automotive applications.