

# INTERPLANT STANDARD — STEEL INDUSTRY



## SPECIFICATION FOR BALLS FOR BALL MILL

IPSS : 1-02-043-87

CORRESPONDING INDIAN STANDARD DOES NOT EXIST

### 0. FOREWORD

0.1 Interplant standardization activity in steel industry has been initiated under the aegis of the Indian Standards Institution (ISI) and the Steel Authority of India Ltd (SAIL). This Interplant Standard prepared by the Standards Committee on Basic Standards and Hydraulic, Pneumatic and Lubricating Equipment, IPSS 1:2 with the active participation of the representatives of all the steel plants and established manufacturers of Balls for Ball Mill was adopted by the Approval Committee on Consumable Stores and General Equipment, IPSS 1, on 19 March 1987.

0.2 Interplant Standards for steel industry primarily aim at achieving rationalization and unification of parts and assemblies used in steel plant equipment and accessories, and provide guidance in indenting stores or equipment (or while placing orders for additional requirements) by individual steel plants. For exercising effective control on inventories, it is advisable to select a fewer number of sizes (or types) from among those mentioned in this standard, for the purpose of company standards of individual steel plants. It is not desirable to make deviations in technical requirements.

1. **Scope** — This Interplant Standard covers the requirements of balls for ball mill for pulverising the coal into fines.

2. **Sizes** — The recommended diameters of balls are 50, 60, 70, 80, 90, 100 and 120 mm.

### 3. Material

3.1 The material of the balls shall conform to C 98 of IS 1570 : 1961 'Schedules for wrought steels for general engineering purposes'.

3.2 **Supply of Material**— The supply of materials shall conform to the requirements for carbon steel forgings as given in IS 1387:1967 'General requirements for the supply of metallurgical materials (first revision)'

### 4. Mechanical Properties

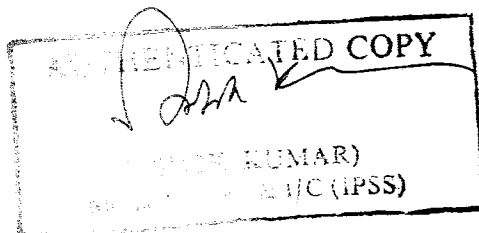
4.1 The hardness shall be 280 - 350 BHN.

4.2 The tolerance shall be as per the medium class of IS 2102 (Part 1) : 1980 'General tolerance for linear and angular dimensions (second revision)'

5. **Designation**— A ball for ball mill having 70 mm diameter shall be designated as:

Ball 70 - IPSS : 1 - 02 - 043 - 87

6. **Test Certificate**— A test certificate from a recognised test house shall be furnished along with each supply for conformance to this standard.



**Amendments Issued ( to be filled up by the user department ) :**

No.	Date of Issue	No.	Date of Issue
1		3	
2		4	

UDC 621.775.2:621.926.3