

Indian Standard

**STEELS FOR HARDENING AND
TEMPERING – SPECIFICATION**

(Second Revision)

1 SCOPE

1.1 This standard covers the technical and delivery requirements for wrought alloyed and unalloyed steels in the form of bars, rods, flats, plates, forgings, etc, to be used in the hardened and tempered condition.

1.2 The steels covered by this standard are in general intended for forgings and machining of parts for engineering or automobile purposes.

2 REFERENCES

The following Indian standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
228	Methods of chemical analysis of steels (<i>second revision</i>)
1500 : 1983	Brinell hardness test for metallic materials (<i>second revision</i>)
1598 : 1977	Izod impact test for metals (<i>first revision</i>)
1608 : 1972	Tensile testing of steel products (<i>first revision</i>)
2049 : 1978	Colour code for the identification wrought steels for general engineering purposes
3469 : (Parts 1 to 3) 1974	Tolerances for closed die steel forging (<i>first revision</i>)
3664 : 1981	Code of practice for ultrasonic pulse echo testing by contact and immersion methods (<i>first revision</i>)
3711 : 1966	Selection and preparation of samples and test pieces for mechanical test for wrought steel
3739 : 1987	Dimensional tolerances for carbon and alloy constructional steel products (<i>first revision</i>)
3848 : 1981	End quench test for hardenability of steel (<i>first revision</i>)
4163 : 1982	Method for determination of inclusion content in steel by macroscopic method (<i>first revision</i>)
4748 : 1968	Method for estimating average grain size of metals (<i>first revision</i>)
8910 : 1978	General technical delivery requirements for steel product
10138	Macroscopic method for determination of non-metallic inclusion content in wrought steel
(Part 1) : 1982	Blue fracture test method
(Part 2) : 1983	Step machined test method
(Part 3) : 1983	Magnetic particle inspection method