

Chemical Analysis of Carbon Steels, Alloy Steels, Cast Iron, etc.

Test protocol: Optical emission spectrometer, atomic absorption spectrophotometer and wet chemical methods

Type of samples that can be analyzed	Report
Various grades of alloy and non-alloy steels	Conformance to the specific grade of alloy or non-alloy steels
Non-alloyed/alloyed steels	Conformance to the chemical requirements of IS 7598:1990 (Reaffirmed 2003)
Cold rolled low carbon steel sheets and strips	Conformance to the chemical requirements of IS 513:1994 (Reaffirmed 1998)
Hot rolled carbon steel sheets and strips	Conformance to the chemical requirements of IS 1079:1994 (Reaffirmed 1998)
Steel tubes for structural engineering purposes	Conformance to the chemical requirements of IS 1161:1998 (Reaffirmed 2003)
Steel tubes, tubulars and other wrought steel fittings	Conformance to the chemical requirements of IS 1239-Part 1: 2004
High strength deformed steel bars and wires for concrete reinforcement	Conformance to the chemical requirements of various grades such as Fe 415, Fe 415D, Fe 500, Fe 500D, Fe 550, Fe 550D, Fe 600 as per clause 4.2 of IS 1786:2008
Uncoated stress relieved low relaxation seven-ply strand for prestressed concrete	Conformance to the chemical requirements of IS 14268:1995 (Reaffirmed 2008)
Carbon steel forgings for general engineering purposes	Conformance to the chemical requirements of IS 2004:1991 (Reaffirmed 2001)
Hot rolled low, medium and high tensile structural steel	Conformance to the chemical requirements of IS 2062:2006
Cold rolled steel strips for springs	Conformance to the chemical requirements of IS 2507:1975 (Reaffirmed 2000)
Carbon steel cast billet ingots, billets, blooms and slabs for re-rolling into steel for general structural purposes	Conformance to the chemical requirements of IS 2830:1992 (Reaffirmed 2003)
Carbon steel cast billet ingots, billets, blooms and slabs for re-rolling purposes	Conformance to the chemical requirements of IS 14650:1999 (Reaffirmed 2004)
Carbon steel cast billet ingots, billets, blooms and slabs for re-rolling into low tensile structural steel	Conformance of the chemical requirements of IS 2831:2001
Mild steel for metal arc welding electrodes	Conformance to the chemical requirements of IS 2879:1998
Steel pipes for water and sewage	Conformance to the chemical requirements of IS 3589:2001
Steel tubes for mechanical and general engineering purposes	Conformance to the chemical requirements of IS 3601:2006
Steel tubes used for water wells	Conformance to the chemical requirements of IS 4270:2001
One-percent chromium steel castings abrasion resistance	Conformance to the chemical requirements of IS 4896:1992 (Reaffirmed 2002)
Spiral welded pipes	Conformance to the chemical requirements of

	IS 5504:1997 (Reaffirmed 2002-05)
Hot rolled steel flat products for structural forming and flanging purposes	Conformance to the chemical requirements of various grades such as Fe 290, Fe 330, Fe 360, Fe 410, Fe 490 and Fe 510 as per clause 7.1 of IS 5896:2002
Indented wire for prestressed concrete	Conformance to the chemical requirements of IS 6003:1983 (Reaffirmed 2003)
Hot rolled steel plate (up to 6 mm), sheet and strip for the manufacture of low pressure liquefiable gas cylinders	Conformance to the chemical requirements of IS 6240:1999 (Reaffirmed 2004)
Automotive grey iron castings	Conformance to the chemical requirements of IS 6331:1987 (Reaffirmed 2005)
Mild steel wire rod for general engineering purposes	Conformance to the chemical requirements of IS 7887:1992 (Reaffirmed 2001)
Structural steel-microalloyed (medium and high strength qualities)	Conformance to the chemical requirements of IS 8500:1991 (Reaffirmed 2000)
Hot-rolled steel strip for welded tubes and pipes	Conformance to the chemical requirements of IS 10758:2004