

Chemical Analysis of Stainless Steels

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

Type of samples that can be analyzed	Report
Various grades of stainless steels	Conformance to any specific grade of stainless steel
Stainless steel plate, sheet and strip	Conformance to the chemical requirements of IS 6911:1992 (Reaffirmed 2004)
Stainless steel sheets and strips used for utensils	Conformance to the chemical requirements of IS 5522:1992 (Reaffirmed 2004)
Stainless steel cooking utensils	Conformance to the chemical requirements of IS 5522:1992 (Reaffirmed 2004) specified in IS 14756:2000 (Reaffirmed 2005)
Stainless steel pressure cooker (body, lid, containers, grid)	Conformance to the chemical requirements of X04Cr1 9Ni9 or X07Cr1 8Ni9 grade of IS 5522:1992 (Reaffirmed 2004)
Stainless steel vent seal pin for pressure regulating device	Conformance to the chemical requirements of X04Cr1 8Ni 10 or X07Cr1 8Ni9 grade as per IS 6527:1995 (Reaffirmed 2006)
Stainless steel wire rods	Conformance to the chemical requirements of IS 6527:1995 (Reaffirmed 2006)
Stainless steel bars and flats	Conformance to the chemical requirements of IS 6603:2001 (Reaffirmed 2004)
Stainless steel sinks for domestic purposes	Conformance to the chemical requirements of X04Cr19Ni9 (AISI 304) or X07Cr18Ni9 (AISI 302) grade of IS 5522:1992 (Reaffirmed 2004) specified in IS 13983: 1994 (Reaffirmed 2004)
Stainless steel butt hinges - Flap	Conformance to the chemical requirements of X 15 Cr 16Ni2 or X07Cr 18Ni9 grade of IS 6911:1992 (Reaffirmed 2004)
Stainless steel butt hinges - Pin	Conformance to the chemical requirements of X04Cr18Ni10 or X07Cr18Ni9 or X10Cr17Mn6Ni4N grade of IS 6528:1995 (Reaffirmed 2001)
Cold rolled stainless steel strips for razor blades	Conformance to the chemical requirements of IS 9294:1979 (Reaffirmed 2004)
Stainless steel tubes for the food and beverage industries	Conformance to the chemical requirements of IS 6913:1973 (Reaffirmed 1998)
Stainless steel blooms, billets and slabs for forgings	Conformance to the chemical requirements of various grades such as X04Cr19Ni9, X04Cr12, X30Cr13, etc. of IS 6529:1996 (Reaffirmed 2001)
Wrought stainless steel for orthopaedic implants	Conformance to the chemical requirements of IS 5347-Part 2:1993/ISO 5832-1:1987 (Reaffirmed 1998)
Wrought high nitrogen stainless steel for orthopaedic implants	Conformance to the chemical requirements of IS 5347-Part 13:1997/ISO 5832-9:1992

Stainless steel wire for mechanical springs

Conformance to the chemical requirements of
IS 4454-Part 4:2001