

STAINLESS STEEL BALL

AISI 304

The balls in AISI 304 steel are suitable for applications in which resistance to corrosion plays an important role, whilst hardness is a secondary factor..

This material, universally considered non magnetic, really has a very low magnetic permeability which however rises in connection with the work-hardening for deformation. The magnetism can be reduced by a solution heat-treatment .

The balls in AISI 304 steel are resistant to the corrosion of oxidative solutions, particularly to those produced by chemical components of organic nature, they are resistant to water, sea-air, inorganic and organic acids. However they are not very resistant to the attacks of sulphuric and hydrochloric acids.

The most common applications include: aerosol pumps, gardening and home sprays, guns, micro-pumps for perfume sprays, valves for medical equipment, agricultural spraying pumps.



International equivalents:

ITALY	USA	GERMANY	FRANCE
X5CrNi1810	AISI 304	1.4301	Z7CN18-09

Size Range:

1.588mm (1/16 ") a 50.80mm (2 ")

Standard grades available:

40 – 100 - 200 – 500 - 1000

Chemical composition:

C %	Mn %	Si %	P %	S %	Cr %	Ni %
≤ 0,080	≤ 2,000	≤ 0,750	≤ 0,045	≤ 0,030	18,0 ÷ 20,0	8,0 ÷ 10,5

Hardness:

HRC 25 - 39