

# STAINLESS STEEL BALLS



## DESCRIPTION

- Stainless steel balls are divided into 3 big families: Austenitic and Martensitic and Ferritic grades.
- Austenitic grades (300 series) are the most corrosion resistant of the stainless steel grades. They are recommended when there is a food contact. They are not or lightly Ferro-magnetic. They are not hardened.
- Martensitic grades (400 series) are corrosion resistant and have higher hardness. These grades are Ferro-magnetic. They are mainly used where hardness, strength and wear resistance are required.
- Ferritic grades are Ferro-magnetic but cannot be hardened or strengthened by heat treatment. They are more corrosive resistant than the Martensitic grades, but inferior to the austenitic grades.

INTERNATIONAL EQUIVALENTS	USA	GERMANY	FRANCE	JAPAN
304	AISI 304	1.4301	Z6CN18-09	SUS304
304L	AISI 304L	1.4307	Z3CN18-10	SUS304L
316	AISI 316	1.4401	Z6CND17-12	SUS316
316L	AISI 316L	1.4404	Z2CND17-12	SUS316L

CHEMICAL COMPOSITION	C	Si	Mn	P	S	Cr	Mo	Ni
304	0.08%max	1.00%max	2.00%max	0.045%max	0.03%max	17-20%		8-11%
304L	0.03%max	0.75%max	2.00%max	0.045%max	0.03%max	18-20%		8-10.5%
316	0.08%max	1.00%max	2.00%max	0.045%max	0.03%max	16-18.5%	2-3%	10-14%
316L	0.03%max	1.00%max	2.00%max	0.045%max	0.03%max	16-18.5%	2-3%	10-14%

HARDNESS + DENSITY	Hardness		Density	
		25-39°HRC	304:7.93 g/cm <sup>3</sup>	316:7.98 g/cm <sup>3</sup>

## APPLICATIONS

0.250 mm – 300 mm

Our steel balls are produced according to international standards such as: ISO 3290 - DIN 5401 - ABMA

Data are indicative and can not bind the responsibility of SALUC sa.

