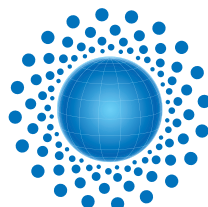


PRECISION BALLS



CATALOG



RGPBALLS
A WORLD OF SPECIAL BALLS

COMPANY PROFILE

RGPBALLS Srl, for over fifty years has been one of the major European companies in the production, marketing and distribution of precision spheres, rollers and bearing spheres. The company is ISO 9001:2015, ISO 14001:2015, ISO 18001:2007 certified.

The main headquarters, recently expanded with a new 3,000 m² warehouse, has 10,000 m² available including offices, warehouse, selection department, metrological laboratory, metallographic laboratory.

Located in Cinisello Balsamo, easily reachable thanks to the immediate vicinity of the main motorway junctions, RGPBALLS Srl employs 70 people in the main headquarters, 20 of which are responsible for the marketing/administrative part, 12 of the metallographic measurement and control laboratory. The rest of the staff is employed in the selection, logistics and warehouse department.

Our warehouses have more than 4,000 tons of stocked products available in order to quickly meet the needs of customers all over the world.

For years, the Group has set the goal of achieving high quality standards by continuing to invest in order to obtain an always increasing reliability towards its customers. Last but not least, the inclusion of a metallographic laboratory with cutting-edge machinery for the analysis of steel microstructures.

We also have qualified personnel available to perform ad hoc consultancies to identify the most suitable item for the requested application.

Thanks to the factories of our Group we have the option of monitoring production with a 100% control on every stage of product processing, by means of a precise and reliable Quality Management.

2015
Foundation

10.000
m² Headquarter

70
employees

4.000
tons of products

More than
3.000
customers

CERTIFICATIONS



AISI 302/304/304L STAINLESS STEEL BALLS

Unhardened austenitic stainless steel balls, they display good mechanical characteristics, toughness and corrosion resistance.

AISI 304L provides lower carbon content, AISI 302 better mechanical characteristics.

Balls are provided in the passivated condition.

Applications

Special bearings and pumps, aerosol pumps, gardening and household sprayers, perfume miniature pumps, seams, medical application valves, agricultural backpack sprayers.

They are used in foodstuff, aerospace and military industry.

Chemical composition

Type	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%N
302	0,150 max	1,00 max	2,00 max	0,045 max	0,030 max	17,00-19,00	8,00-10,00	0,100 max
304	0,080 max	0,75 max	2,00 max	0,045 max	0,030 max	18,00-20,00	8,00-10,50	0,100 max
304L	0,030 max	0,75 max	2,00 max	0,045 max	0,030 max	18,00-20,00	8,00-10,50	0,100 max

International standards

ITA	USA	GER	FRA	UK	RUS	CHN	JAP
X10CrNi18-8	302	1.4310	Z11CN18-08	301S21	12KH18N9	1Cr18Ni9	SUS301
X5CrNi18-10	304	1.4301	Z7CN18-09	304S15	08KH18N10	0Cr18Ni9	SUS304
X2CrNi18-9	304L	1.4307	Z3CN18-10	304S11	04KH18N10	00Cr19Ni10	SUS304L

Physical / mechanical / thermal / electric / magnetic properties

Property	Symbol	U.o.M.	Type	Notes	Values
Density	δ	g/cm ³	Physical	Room temp.	7,95
Young's modulus	E	GPa	Mechanical	-	200
Specific heat	c	J/kg·K	Thermal	Room temp.	500
Coefficient of linear thermal expansion	α	10 ⁻⁶ /°C	Thermal	($\Delta T=0-100^{\circ}C$)	17,5
Thermal conductivity	λ	W/(m·K)	Thermal	Room temp.	15,8
Electric resistivity	ρ	$\Omega \cdot m \cdot 10^{-9}$	Electric	-	710
Relative magnetic permeability	μ	-	Magnetic	Paramagnetic	1,025*

AISI 316/316L STAINLESS STEEL BALLS

Austenitic stainless steel balls with higher corrosion resistance than AISI 304 balls.

They show good toughness.

AISI 316L has a lower carbon content (maximum 0,030%).

Balls are provided in the passivated condition.

Applications

Special bearings, pumps and valves, aerosol and dispenser sprayers.

Utilised in the foodstuff, paper, chemical, rubber, military, textile industry.

Applications in photographic devices, medical instruments, quick couplings, recirculating balls, ink cartridges, jewels.

Chemical composition

Type	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%Mo	-	-	-
316	0,080 max	1,00 max	2,00 max	0,045 max	0,030 max	16,00-18,00	10,00-14,00	2,00-3,00	-	-	-
316L	0,030 max	1,00 max	2,00 max	0,045 max	0,030 max	16,00-18,00	10,10-14,00	2,00-3,00	-	-	-

International standards

ITA	USA	GER	FRA	UK	RUS	CHN	JAP
X5CrNiMo1712-2	316	1.4401	Z6CND17.11	316S16	08KH16N11M3	0Cr17Ni12Mo2	SUS316
X2CrNiMo1712-2	316L	1.4404	Z3CND17-11-02	316S11	03KH17N14M2	0Cr19Ni12Mo2	SUS316L

Physical / mechanical / thermal / electric / magnetic properties

Property	Symbol	U.o.M.	Type	Notes	Values
Density	δ	g/cm ³	Physical	Room temp.	7,95
Young's modulus	E	GPa	Mechanical	-	200
Specific heat	c	J/kg·K	Thermal	Room temp.	500
Coefficient of linear thermal expansion	α	10 ⁻⁶ /°C	Thermal	($\Delta T=0-100^{\circ}C$)	17
Thermal conductivity	λ	W/(m·K)	Thermal	Room temp.	15,0
Electric resistivity	ρ	$\Omega \cdot m \cdot 10^{-9}$	Electric	-	730
Relative magnetic permeability	μ	-	Magnetic	Paramagnetic	1,020*

® RGPBALLS S.r.l.

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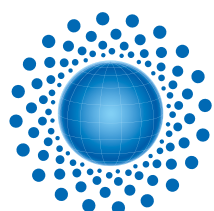
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