



## Datasheet

### Steel balls, material 1.4301

according to DIN EN 10088-3

Short name: X5CrNi18-10

Foreign designation: INOX AISI 304

Other designations: stainless steel, Inox, V2A

#### Chemical composition:

	C %	Si %	Mn %	Cr %	Ni %	Mo %	P %	S %	N %
min.	-	-	-	17,5	8,0		-	-	-
max.	0,07	1,00	2,00	19,5	10,5		0,045	0,015	0,11

Hardness: HRC 25 – 39 / 280 HV10 – 380 HV10

Hardness, annealed: 75 – 90 HRB

Specific weight: 7,97 g/cm<sup>3</sup>

#### Characteristics:

Not hardenable, austenitic inox, very good resistance to corrosion (apart of sulphuric, hydrochloric and phosphoric acids), excellent welding suitability

#### Special and physical characteristics:

Magnetic characteristics  $\mu_r \leq 1,3$ 

Magnetisability: very low

Suitable for low temperature

Usable up to 700° C

Thermal conductivity at 20° C (W/m K): 15

#### Application areas:

food industry, pharmaceutical industry, aggressive applications without mechanical efforts, decoration

Qualities according to DIN 5401: G40 to G700

Vertretung Deutschland  
Firma Martin zertifiziert nach  
ISO/TS 16949:2002 - Cert. n° 3079  
ISO 9001:2000 - Cert. n° 4487  
ISO 14001 - Cert. n° 0092A/0ISOMETALL  
zertifiziert nach  
ISO 9001-2008Im Auftragsfall bleibt die Ware bis  
zur vollständigen Bezahlung  
unser Eigentum.