

## **Stainless Steel AISI 316, 316L (Austenitic)**

### **General Information**

Similar to AISI 302/304 but, with the addition of molybdenum improves corrosion resistance particularly to sulphuric acid compounds. These balls are used extensively in applications where contact is made with inks, photographic chemicals, bleaches, dyes and nitric acids. This is the only austenitic steel for ball manufacture and can be Magnetic and Non Magnetic.

### **International Equivalents**

DIN X5 CR NI MO 17122, W 1.4401, JIS SUS 316

### **Composition**

	<b>316</b>	<b>316L</b>
C	0.08% Max	0.08% Max
Cr	16 - 18%	16 - 18%
Ni	10 - 14%	10 - 14%
Si	1.0% Max	1.0% Max
Mo	2 - 3%	2 - 3%
Mn	2.0% Max	2.0% Max
P	0.045% Max	0.045% Max
S	0.03% Max	0.03% Max

### **Hardness**

Soft (Annealed)

### **Mechanical Properties**

Tensile Strength	180,000 psi
Yield Strength	150,000 psi
Density	0.290 lbs/cu.in

**Size Range** - 1.588mm (1/16") to 76.2mm (3")

### **Standard Grades Available**

24, 48, 100, 200, 1000