

Service Warehouse

Austenitic Stainless Steel (Table 1)	Ferritic Stainless Steel (Table 2)	Martensitic Stainless Steel (Table 3)
<p>TYPE 304 (frequently referred to as 18-8 stainless) is the most widely used alloy of the austenitic group. It has a nominal composition of 18% chromium and 8% nickel.</p> <p>TYPE 316 contains only slightly more nickel than 304, and 2-3% molybdenum giving it better resistance to corrosion than 304, especially in chloride environments that tend to cause pitting.</p>	<p>TYPE 430 is the general-purpose stainless of the ferritic group. Other types in the ferritic group include (405, 409, 429, 434, 436, 442, 446)</p>	<p>TYPE 410 is the general purpose alloy of the martensitic group. Others include (403, 414, 416, 420, 422, 431, 440).</p>
<p>Containing chromium and nickel are identified as 300 series types. Alloy's containing chromium, nickel and manganese are identified as 300 series types. The stainless steels in the austenitic group have different compositions and properties, but many common characteristics. They can be hardened by cold working, but not by heat treatment. In the annealed condition all are essentially nonmagnetic, although some may become magnetic by cold working. They have excellent corrosion resistance, usually good formability, and increase in strength as a result of cold work.</p>	<p>Ferritic stainless steels are straight-chromium 400 series types that cannot be hardened by heat treatment. and only moderately be cold working. They are magnetic, have good ductility and resistance to corrosion and oxidation.</p>	<p>TYPE 410 are straight-chromium 400 series types that can be hardened by heat treatment. They are magnetic and resist corrosion in mild environments only (fresh water). They have fairly good ductility, and some can be heat treated to tensile strengths exceeding 200,000 psi (1379 MPa).</p>
<p>Fastener Types: 304</p>	<p>Fastener Types: NA</p>	<p>Fastener Types: 410</p>
<p>Default for Machine Screws, Nuts, Washers, Sheet Metal Screws, Wedge and Sleeve Anchors.</p>	<p>Not a commonly used stainless type for fasteners.</p>	<p>Default for Self Drilling Screws</p>
<p>Fastener Types: 316</p>		
<p>Special Request for Machine Screws, Nuts, Washers, Sheet Metal Screws, Wedge and Sleeve Anchors.</p>		