Glossary

Austenitic Stainless Steels are usually non-magnetic. This class of stainless steel includes both the 200 and 300 series alloys, which are harden able by cold working. The 200 Series alloys possess mechanical and corrosion resisting properties similar to 300 Series materials. The 300 series alloys contain chromium and nickel as their major alloying additions. Type 304 (also known as 18-8) is the most widely used of all stainless steel alloys. Austenitic Stainless steels exhibit high hardness and yield strength as well as excellent ductility.

BAND-FAST® is precut band assembled with a buckle, seal or clip. These clamps can be threaded through or around objects where a preformed clamp would be impossible or impractical to install. **BAND-FAST®** clamps can also be manufactured in long lengths to accommodate larger diameters than preformed clamps.

COLOR-IT® Polyester is an exterior polyester paint with a minimal thickness. It provides good abrasion and UV resistance as well as durability. Products coated with **COLOR-IT®** work with standard banding tools.

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Ferritic Stainless Steels are magnetic; they generally have good ductility and can be welded or fabricated without difficulty. These grades can be processed to develop an aesthetically pleasing, bright finish and, hence, are sometimes used for automotive trim and appliance moulding. The corrosion resistance is comparable to that of the austenitic grades in certain applications. Thermal conductivity is about half that of carbon steels. They also find use in functional applications where cost is a major factor, e.g., automotive exhaust systems, catalytic converters, radiator caps, and chimney liners. These grades can be hardened by cold rolling, but cannot be hardened as much as the austenitic alloys.

Galvanized Carbon Steel is used for BAND-IT® band and clamps. It is a low or medium carbon (.43 to .60%) cold rolled strip coated with electro galvanized zinc.

Nylon 11 is a thermoplastic polymer applied by electrostatic powder spray. Characteristics are low smoke, good UV resistance, excellent corrosion and chemical resistance, non-toxic and halogen free with excellent adhesion and abrasion resistance.

PPA 571 is a polymer with similar properties to Nylon 11 applied by electrostatic powder spray or fluidized bed method.

Preformed Clamps are manufactured in the round state to the maximum diameter, ready to be installed and pulled down to finished diameter.

Type 201 Stainless Steel is an austenitic chromium-nickel-manganese steel with excellent tensile properties. It offers good resistance to oxidation and many mild to moderate corrosive agents. Type 201 SS is used where greatest strength is required. It is the BAND-IT material most commonly used.

1/4 Hard 201 Stainless Steel is used in Ultra-Lok® Preformed and open-end clamps for extra strength.

Type 304 Stainless Steel is an all-purpose austenitic, low carbon 18-8 chromium-nickel stainless steel. It has good corrosion resistance and weldability. Type 304 is the most widely used stainless steel. It is found in chemical and food processing equipment, hospital and paper mill equipment, heat exchangers, etc.

Type 316 Stainless Steel is an austenitic chromium-nickel molybdenum stainless and heat resisting steel with superior corrosion resistance. It is extensively used in marine atmospheres and environments where it is subjected to various chemicals, salts, acids, and high temperatures. Type 316 has superior creep strengths at elevated temperatures.

Type 317L Stainless Steel is similar in composition to Type 316, but higher in chromium and molybdenum and lower in carbon. It has higher resistance to chlorine and stress cracking as well as intergranular corrosion. It has superior corrosion resistance under extreme conditions as found in certain marine environments and the pulp and paper industry.

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NPT	American Standard Taper Thread
NPSC	National Pipe Straight Coupling
NPSM	American Standard Straight Pipe for Mechanical Joints
M	Meter
mm	Millimeter
cm	Centimeter
Kg	Kilogram
SS	Stainless Steel
ID	Inside Diameter
OD	Outside Diameter
UIC	Uniform Industrial Code
GCS	Galvanized Carbon Steel