

THE COMPLETE FASTENER LINE

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FASTENER TERMINOLOGY

Bolt: An externally threaded, headed fastener. Difference between a bolt and a screw is: a bolt is generally used through a hole with a mating nut; a screw is used in a threaded hole without a nut.

Class Of Thread: A system used to distinguish thread tolerance differences. Classes 1A, 2A, and 3A apply to external threads, and 1B, 2B, and 3B to internal threads. Classes 2 and 3 apply to both external and internal threads.

Crest: The outermost tip of male thread from the fastener cylinder, or innermost tip of female thread.

Driving Recess: A recess in the fastener head designed to accept a driving tool.

External Thread: The male thread. Thread outside of the cylinder surface.

Internal Thread: Female thread. Thread on the inside surface of a cylinder or cone.

Left-Hand Thread: Thread that winds counter-clockwise from the starting end of a fastener.

Major Diameter: The largest diameter of a screw thread, on a straight thread it is the diameter of an imaginary cylinder which would pass through the crest of an external thread or the root of an internal thread.

Minor Diameter: On a straight thread it is the diameter of an imaginary cylinder bounding the root of an external thread or the crest of an internal thread.

Nominal Diameter: Basic diameter that determines the size and dimensional limits of fasteners.

Pitch: Distance from a point of a screw thread to a corresponding point on the next thread measured parallel to the axis. **Right-Hand Thread:** A thread that winds clockwise from the starting end of a fastener (when viewed from the starting end). **Screw:** A headed fastener which is externally threaded.

Sems[®]: A term applied to preassembled screw and washer assemblies. Washers are placed on screws before roll threading. Threads being of larger diameter than the washer hole thus prevent the washer from slipping off the screw. **Stud:** A threaded rod - at both ends or for entire length.

Tapping Screw: A hardened thread screw made to cut or form its own mating thread in an untapped hole.

Teks[®]: A screw which drills its own hole and then threads in.

Thread Pitch: The distance from the crest of one thread to crest of another.

PLATINGS AND FINISHES

Finish	Color	Anti-Corrosion Properties	Character	istics And Uses
Black Oxide	Black	Good (Interior Only) - 8 Hr. Salt Spray	Most Metals	Decorative finish. Used only on interior applications.
Black Zinc	Black	Excellent - 72 Hour Salt Spray	All Metals	Rich and lustrous. With or without lacquering.
Cadmium	Bright Silver-Gray Dull or Burnished	Very Good - 24 Hour Salt Spray	Most Metals	Non-porous metallic plating. Rich appearance, good rust resistance, low cost, good electrical conductivity. Bright silver-gray dull gray or black electroplated finish.
Chromium (Chrome)	Bright Blue-White	Excellent – 24 Hour Salt Spray	All Metals	Used when a beautiful finish is desired. Bright blue-white lustrous appearance. Electroplated.
Dichromate Dip	Rainbow	Excellent	All Metals	A yellow, brown, green or iridescent colored coating. Increases rust resistance. Add to Zinc or Cadmium plating.
E-Coat	Black	Excellent - 168 Hour Salt Spray	All Metals	Added protection containing corrosion inhibitors. Excellent for exterior applications.
Iridite	Green Blue Olive drab Red Bronze Black	Excellent	All Metals	Coloring dip which adds rust resistance. Usually applied on Zinc or Cadmium.
JS-500	Chrome-like luster	Excellent - 500 Hour Salt Spray	All Metals	Outstanding corrosion resistant finish that provides economical corrosion protection without adversely affecting dimensions.
Mechanical Zinc	Gray	Very Good – 48 Hour Salt Spray	All Metals	A chemical process of rust-proofing steel.
Nickel	Silver	Very Good – 24 Hour Salt Spray	All Metals	A hard, stable, dull white or bright burnished finish. Used for appliances and hardware.
Parkerized	Black	Excellent - 72 Hour Salt Spray	Ferrous Metals	Added protection when oiled with a non-drying petroleum oil containing corrosion inhibitors. Good lubricity.
Phosphating	Dull, Gray, Black, or Blue	Excellent – 72 Hour Salt Spray	Ferrous Metals	A chemical process of rust-proofing steel.
Passivating		Excellent	Stainless Steels	For stainless steels. A nitric acid dip to remove foreign material and brighten finish.
Zinc Electrogalvanized	Gray	Very Good – 24 Hour Salt Spray	All Metals	Good rust resistance, appearance & low cost.
Zinc Electroplated	Blue To Blue-White-Gray	Very Good – 24 Hour Salt Spray	All Metals	Commonly used finish.

"SINCE 1916"