STAINLESS STEEL PRODUCT GUIDE

Below you will find the stainless steel products we sell at Western Steel and Wire. Our expert team is happy to answer any questions you may have about what grade of wire and/or coating option is best for your job.

Stainless Steel Spring Wire:

- Springs back into shape when used
- Used for automotive springs, medical instruments, electronics, any project that requires sturdy material that, won't lose shape under stress

Stainless Steel Annealed Wire:

- Heat treated to reduce stress of shaping
- Available in ⅛ and ½ hardness
- Used for ties, woven wire, fencing, jewelry and art, any project that requires a lot flexibility

Spring Wire Coating Options

Soap Coated	Bright Coated
Features Non-metallic coating 2 step process creates ease of drawing Least expensive option	**Features** Non-metallic coating Non-lubricating Creates shine & luster
Applications Lubricant for spring Used in application where handling the wire to mold and shape	**Applications** When visual aesthetic is high importance Often used in medical

Contact Western Steel & Wire
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Stainless Steel Spring & Annealed Wire Grades for High Strength

Grade	Details	Features	Applications & Uses
T302	**Cost:** MED **Strength:** MED **Corrosion Resistance:** MED	Good strength and toughness at cryogenic temperatures Resistant to corrosion and oxidation	Most common spring grade Example applications: compression springs, tension spring, torsion spring and coil spring
T304	**Cost:** MED **Strength:** LOW - MED **Corrosion Resistance:** MED	Softer than T302 Easier to form Oxidation resistant High melting point with tensile strength tradeoffs Susceptible to pitting	Annealed conditions for fasteners Easy to clean and sanitize Example applications: auto moldings and trim, wheel covers, kitchen equipment and appliances
T308	**Cost:** MED - HIGH **Strength:** MED - HIGH **Corrosion Resistance:** MED	Corrosion Resistance Temperature resistant Harder than 304	Second most used Example applications: jewelry, restaurant and distillery equipment, chemical tanks, filler material when welding T304
T316	**Cost:** HIGH **Strength:** LOW **Corrosion Resistance:** HIGH	Incredible corrosion properties High amounts of chromium and nickel High melting point	Used when wire will be exposed to salts and chlorides Example applications: marine parts, chemical equipment, outdoor electrical
T17-7	**Cost:** HIGH **Strength:** HIGH **Corrosion Resistance:** MED	High strength General purpose corrosion resistance Excellent fatigue properties Comparable to T304	Similar uses as T302 but at a higher strength Example applications: compression springs, tension spring, torsion spring and coil spring