

# 17-4 Stainless Steel Data Sheet

## \*Chemical Composition (Nominal Values Weight %)

C	Cr	Ni	Cu
0.02	16.75	4.75	3.5

\*Composition shown is nominal. Actual chemical composition may vary.

## Characteristics

**17-4 Stainless Steel** is a precipitation hardening stainless steel. 17-4 Stainless Steel is used in plastics processing and extrusion where a combination of high corrosion resistance and wear is necessary.

**17-4 Stainless Steel** consistently demonstrates the following characteristics:

- High resistance to corrosive environments
- Similar to class 304 Stainless. Superior to all 400 class stainless steels
- Moderate wear resistance
- Superior dimensional stability in heat treatment
- Ability to be EDM machined easily

## Applications

**17-4 Stainless Steel** applications include: plastic extrusion tooling, injection mold inserts, injection mold components, high corrosion resistant stainless applications.

## Heat Treatment of 17-4 Stainless Steel

### Solution Treating

Heat through to 1900°F, hold 30 minutes per inch of thickness. Air quench to room temperature.

### Age hardening

Age one hour per inch of thickness, 4 hours minimum.

925 F: Approximately 42 HRC

1025 F: Approximately 38 HRC

1150 F: Approximately 34 HRC

**17-4 Stainless steel** is typically supplied in the solution annealed condition at approximately 32-35 HRC.