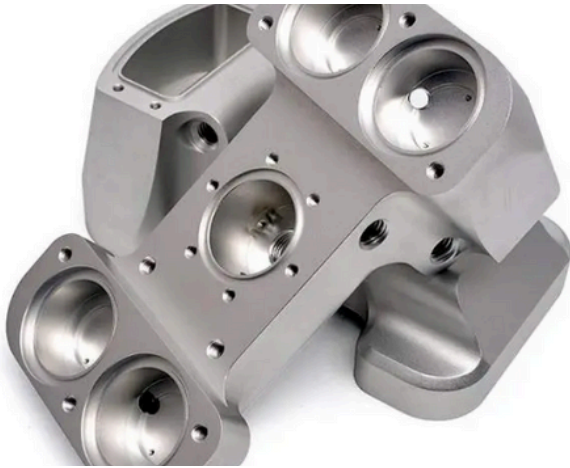


# CNC Stainless Steel

SUITABLE FOR CNC MACHINING



## MATERIAL NAME

CNC Stainless Steel

## COLOR

Natural Stainless Steel

## PROCESS

CNC

## PRODUCT DESCRIPTION

CNC Stainless Steel is a kind of high strength, corrosion resistance, high temperature resistant alloy material, mainly composed of iron (Fe), chromium (Cr), nickel (Ni), carbon (C) and other elements. It is widely used in CNC machining to manufacture precision parts, structural parts, medical devices, automotive parts, etc., and is favored for its excellent mechanical properties, durability, and surface treatment adaptability.

## TYPICAL APPLICATIONS

- Marine equipment (Marine accessories, bolts)
- Medical implants (bone pins, stents)
- Aerospace (Engine parts, landing gear)
- Auto parts (exhaust pipe, trim strip)

## PRODUCT SAFETY

- Metal dust generated during CNC machining should be controlled through appropriate ventilation and protective measures to avoid inhalation.
- Use safety goggles, gloves and a dust mask during processing to prevent fine metal particles and sharp edges.

## PRODUCT DELIVERY & WAREHOUSING

- **STORAGE**

Store in a dry, ventilated environment, avoiding moisture and exposure to corrosive chemicals. Apply protective coatings to prevent oxidation or corrosion of metal surfaces.

- **USAGE AND HANDLING**

Remove burrs and residual materials from the product. Use protective equipment like gloves when handling. Avoid using the product in extreme environments or high-load scenarios; regularly inspect for mechanical performance.

- **CHEMICAL COMPATIBILITY**

Avoid contact with strong acids, alkalis, or corrosive solvents. Use appropriate cleaning and maintenance solutions.

Assess risks of oxidation, corrosion, or magnetic effects based on specific application environments.

## MATERIALS WE SUPPORT:

ASTM	DIN	GB	Density (g/cm <sup>3</sup> )	Hardness	Tensile Strength, Yield(Mpa)	Fatigue Strength (Mpa)	Elongation at Break(%)
440C	X105CrMo17	11Cr17/9Cr18Mo	7.8	223 HB	445	83.9	14
420J2	/	4Cr13	7.8	280 HB	500	350~450	10~15
420	X30Cr13	3Cr13	7.8	195 HB	345	80.7	25
17-4PH/630	X5CrNiCuNb17-4	0Cr17Ni4Cu4Nb	7.8	419 HB	1379	77.4	7
201	/	12Cr17Mn6Ni5N	7.9	170~200 HB	520	250~350	50~60
301	X12CrNi17-7	1Cr17Ni7	7.9	160~200 HB	520	300~450	35~45
303	X10CrNiS18-9	Y1Cr18Ni9	8	160 HB	240	77.2	50
304/304H	X5CrNi18-10	0Cr18Ni9	8	201 HB	515	300~450	40
304L	X2CrNi19-11	00Cr19Ni10	7.9	187 HB	520	250~350	40
316/316H	X5CrNiMo17-12-2	0Cr17Ni12Mo2	8	150~217 HB	205	300	50
316L	X2CRNiMo18-14-3	00Cr17Ni14Mo2	8	150~217 HB	205	300	50

**Tips:** Want to explore a wider range of materials? Check out <https://www.unionfab.com/materials>



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