

Hastelloy X has exceptional strength and oxidation resistance up to 1200°C. And it has been found exceptionally resistant to stress-corrosion cracking in petrochemical applications. Alloy X is recommended especially for use in furnace applications because it has unusual resistance to oxidizing, reducing, and neutral atmospheres.

Hastelloy X Specification

Grade	UNS	W.Nr
Alloy X	N06602	2.4665

Hastelloy X Chemical composition

Grade	%	Ni	Cr	Fe	Mo	W	Co	C	Mn	Si	S	Cu	Al	Ti
Alloy X	Min	Bal.	20.5	17.0	8.0	0.2	0.5	0.05						
	Max		23.0	20.0	10.0	1.0	2.5	0.15	1.0	1.0	0.015	0.5	0.15	0.5

Hastelloy X Mechanical properties: (Minimum value at 20°C)

Tensile Strength σ_b /MPa	Yield Strength $\sigma_{p0.2}$ /MPa	Elongation σ_5 /%
≥ 690	≥ 275	≥ 30

Hastelloy X Standard

Bar/Rod	Sheet/Strip	Wire	Pipe/Tube
ASTM B572	ASTM B435	ASTM B166	ASTM B622 ASTM B619 ASTM B626

Hastelloy X Size Range

- Wire: Dia 0.08-12mm
- Bar: Dia 1.0-300mm
- Strip(Coil): 0.2-20mm TCK x 10-300mm W
- Sheet: min.0.7mm TCK x 1200mm W max.
- Tube & Forging & Machine Parts: customized
- Welding wire: 0.8mm, 1.0mm, 1.2mm, 2.0mm, 2.4mm, 3.2mm, 3.8mm, 4.0mm etc
- Welding Strip: 0.4-0.7mm TCK x 25-60mm W