

**Hastelloy C22**, also known as alloy C22, is a versatile austenitic nickel-chromium-molybdenum-tungsten alloy with enhanced resistance to pitting, crevice corrosion and stress corrosion cracking. The high chromium content provides good resistance to oxidizing media while the molybdenum and tungsten content give good resistance to reducing media.

**Hastelloy C22** is particularly useful for resistance to pitting and crevice corrosion in acid-halide environments. Applications include the chemical processing, pollution control, flue gas desulfurization, waste incineration and pulp and paper processing industries.

#### Hastelloy C22 Specifications

Grade	UNS	W.Nr
Hastelloy C22	N06022	2.4602

#### Hastelloy C22 Chemical Composition

Grade	%	Ni	Cr	Mo	Fe	W	Co	C	Mn	Si	V	P	S
Hastelloy C	Min.	bal	14.5	15	4	3							
	Max.		16.5	17	7	4.5	2.5	0.08	1	1	0.35	0.04	0.03
Hastelloy C22	Min.	bal	20	12.5	2	2.5							
	Max.		22.5	14.5	6	3.5	2.5	0.015	0.5	0.08	0.35	0.02	0.02

#### Hastelloy C22 Mechanical properties: (Minimum value at 20°C)

Tensile Strength $\sigma_b$ /MPa	Yield Strength $\sigma_{p0.2}$ /MPa	Elongation $\sigma_5$ /%
$\geq 690$	$\geq 310$	$\geq 40$

#### Hastelloy C22 Standard

Bar	Wire	Forging	Pipe/Tube	Sheet/Strip
ASTM B574	ASTM B462	ASTM B564	ASTM B622 ASTM B626 ASTM B619 ASTM B775	ASTM B575

#### Hastelloy C22 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