

Haynes 230

Haynes 230 is a nickel-chromium-tungsten-molybdenum alloy that combines excellent high-temperature strength, outstanding resistance to oxidizing environments up to 1150°C for prolonged exposures, premier resistance to nitriding environments, and excellent long-term thermal stability.

Chemical Composition, %

element	Ni	Cr	W	Мо	Со	Fe	Al	В	La	C	Mn	Si	Р	S
min.	bal.	20.0	13.0	1.0					0.005	0.05	0.3	0.25		
max.		24.0	15.0	3.0	5.0	3.0	0.5	0.015	0.050	0.15	1.0	0.75	0.03	0.015

chemical Composition according to ASTM. Some compositional limits of other specifications may vary slightly.

Designation and standards

National	Material	Chemical	Forgings	Rod and	Plate and	Wire	Seamless
Standards	designation	composition	Forgings	bar	sheet	wire	tube
ASTM			B564	B572	B435		B622
ASME	UNS N06230		SB564	SB572	SB435	AMS 5839	SB622
SAE			AMS 5891	AMS 5891	AMS 5878		3D022
DIN	2.4733	DIN 17744					
	Ni22W14Mo	DIN 17744					

Density 9.14g/cm³

Corrosion resistance

- good resistance to oxidation up to 1150°C
- good resistance to nitriding environments

Applications

Typical applications are:

- a variety of fabricated component applications in aerospace and power industry
- combustion cans, transition ducts, flameholders, thermocouple sheaths in commercial gas turbine engines