HAYNES® 230® alloy

Specifications and Codes

Specifications

HAYNES® 230® alloy (N06230)	
Sheet, Plate & Strip	AMS 5878 SB 435/B 435 P= 43
Billet, Rod & Bar	AMS 5891 SB 572/B 572 B 472 P= 43
Coated Electrodes	SFA 5.11/ A 5.11 (ENiCrWMo-1) F= 43
Bare Welding Rods & Wire	SFA 5.14/ A 5.14 (ERNiCrWMo-1) AMS 5839 F= 43
Seamless Pipe & Tube	SB 622/B 622 P= 43
Welded Pipe & Tube	SB 619/B 619 SB 626/B 626 P= 43
Fittings	SB 366/B 366 P= 43
Forgings	AMS 5891 SB 564/B 564 P= 43
DIN	17744 No. 2.4733 NiCr22W14Mo
Others	-

Codes

HAYNES® 230® alloy (N06230)			
ASME	**Section I**	1650°F (899°C)[1,4]	
	Section III	**Class 1**	-
		Class 2	-
		Class 3	-
	Section IV	**HF-300.2**	500°F (132°C)[1]
	Section VIII	**Div. 1**	1800°F (982°C)[1,5,6]
		Div. 2	-
	Section XII	650°F (343°C)[1]	
	B16.5	1500°F (816°C)[2]	
	B16.34	1500°F (816°C)[3,7]	
	B31.1	-	
	B31.3	1650°F (900°C)[1]	
MMPDS	6.3.9		

[1]Plate, Sheet, Bar, Forgings, fittings, welded pipe/tube, seamless pipe/tube

[2]Plate, Forgings

[3]Plate, Bar, Forgings, seamless pipe/tube

[4]This is the maximum design temperature for water service construction. Several ASME Code Cases govern additional usage:

a) Per Section I Code Case 2665, 1300°F (704°C) is the maximum design temperature for molten nitrate salt wetted construction.

b) Per Section I Code Case 2756, autogenous welds can be used in the design range of 1000°F and 1250°F (538-677°C).

c) Weld strength reduction factors are governed by Section I PG-26 and Code Case 2805.

[5]Section VIII Division 1 Code Case 2671 contains an external pressure chart for 1800°F (982°C).

[6]For any bolts created from this material, 1650°F is the maximum design temperature. See Section VIII Division 1 Code Case 2775.

[7]B16 Case 5 allows for higher pressure-temperature ratings for valves made of this material.