

Säurebeständige Werkstoffe

Acid-resistant materials

Werkstoff Material	Bezeichnung intern Internal Identification	Kurzname Short name	Chemische Zusammensetzung in % (Massenanteil) Chemical composition in % (by mass)					US-Norm, AISI US Standard, AISI
			C C	Cr Cr	Ni Ni	Mo Mo	Sonstige Other	
1.4016	CRA	X6Cr 17	≤ 0,09	16,0 – 18,0				430
1.4104		X14CrMoS 17	0,10 – 017	15,5 – 17,5			S 0,15 – 0,35	
1.4105	CRZA	X6CrMoS	17 ≤ 0,08	16,0 – 18,0		0,20 – 0,60	S 0,15 – 0,35	430 F
1.4113	CRMO	X6CrMo 17 - 1	≤ 0,08	16,0 – 18,0		0,90 – 1,40		434
1.4301 (1.4307)	B2W	X5CrNi 18 - 10	≤ 0,07 (≤ 0,03)	17,0 – 19,5	8,0 – 10,5			304 (304 L)
1.4303	B2WK	X4CrNi 18 - 12	≤ 0,06	17,0 – 19,0	11,0 – 13,0			305/308
1.4305	B2ZA	X8CrNiS 18 - 9	≤ 0,10	17,0 – 19,0	8,0 – 10,0		S 0,15 – 0,35; Cu ≤ 1,0	303
1.4306	B2WL	X2CrNi 19 - 11	≤ 0,03	18,0 – 20,0	10,0 – 12,0			304 L
1.4310	B2F	X10CrNi 18 - 8	0,05 – 0,15	16,0 – 19,0	6,0 – 9,5	≤ 0,80		301
1.4362		X2CrNiN 23 - 4	≤ 0,03	22,0 – 24,0	3,5 – 5,5		N 0,05 – 0,20	
1.4370	B7A	X15CrNiMn 18 - 8	≤ 0,19	17,2 – 19,8	7,6 – 9,4		Mn 5,6 – 7,9	
1.4401	B4W	X5CrNiMo 17 - 12 - 2	≤ 0,07	16,5 – 18,5	10,0 – 13,0	2,0 – 2,5		316
1.4404	B4WL	X2CrNiMo 17 - 12 - 2	≤ 0,03	16,5 – 18,5	10,0 – 13,0	2,0 – 2,5		316 L
1.4435	B4WML	X2CrNiMo 18 - 14 - 3	≤ 0,03	17,0 – 19,0	12,5 – 15,0	2,5 – 3,0		316 L
1.4436	B4WM	X3CrNiMo 17 - 13 - 3	≤ 0,05	16,5 – 18,5	10,5 – 13,0	2,5 – 3,0		316
1.4438	B5WML	X2CrNiMo 18 - 15 - 4	≤ 0,03	17,5 – 19,5	13,0 – 16,0	3,0 – 4,0		317 L
1.4439	B5WN	X2CrNiMo 17 - 13 - 5	≤ 0,03	16,5 – 18,5	12,5 – 14,5	4,0 – 5,0	N 0,12 – 0,22	
1.4462	B4WN	X2CrNiMoN 22 - 5 - 3	≤ 0,03	21,0 – 23,0	4,5 – 6,5	2,5 – 3,5	N 0,010 – 0,22	
1.4482		X2CrMnNiMoN 21 - 5 - 3	≤ 0,03	19,5 – 21,5	1,0 – 3,0	≤ 0,6	N 0,05 – 0,17	
1.4529		X1NiCrMoCuN 25 - 20 - 7	≤ 0,02	19,0 – 21,0	24,0 – 26,0	6,0 – 7,0	N 0,15 – 0,25; Cu 0,5 – 1,5	
1.4539	B5WCU	X1NiCrMoCu 25 - 20 - 5	≤ 0,02	19,0 – 21,0	24,0 – 26,0	4,0 – 5,0	Cu 1,2 – 2,0; N ≤ 0,15	904 L
1.4541	B2ST	X6CrNiTi 18 - 10	≤ 0,08	17,0 – 19,0	9,0 – 12,0		Ti > 5x% C ≤ 0,7	321
1.4550	B2SNB	X6CrNiNb 18 - 10	≤ 0,08	17,0 – 19,0	9,0 – 12,0		Nb 10x% C ≤ 1,0	347/348
1.4567	B2WCU	X3CrNiCu 18 - 9 - 4	≤ 0,04	17,0 – 19,0	8,5 – 10,5		Cu 3,0 – 4,0	304 Cu
1.4570		XCrNiCuS 18 - 9 - 2	≤ 0,08	17,0 – 19,0	8,0 – 10,0		S 0,15 – 0,35; Cu 1,4 - 1,8	
1.4571	B4ST	X6CrNiMoTi 17 - 12 - 2	≤ 0,08	16,5 – 18,5	10,5 – 13,5	2,0 – 2,5	Ti > 5x% C ≤ 0,7	316Ti
1.4578	B4WCU	X3CrNiCuMo 17 - 11 - 3 - 2	≤ 0,04	16,5 – 17,5	10,0 – 11,0	2,0 – 2,5	Cu 3 – 3,5	

Fliegwerkstoffe

Aerospace materials

1.4314(.9) 1.4301	B2WLN	X5CrNi 18 - 9	≤ 0,07	17,0 – 19,0	8,5 – 10,5			
1.4544(.9) 1.4541	B2STL	X6CrNiTi 18 - 10	≤ 0,08	17,0 – 19,0	9,0 – 12,0		Ti > 5x% C < 0,7	
1.4546(.9) 1.4550	B2STLN	X5CrNiNb 18 - 10	≤ 0,08	17,0 – 19,0	9,0 – 11,5		Nb ≥ 10xC ≤ 1,0	

Hitzebeständige Werkstoffe

Heat-resistant materials

Werkstoff Material	Bezeichnung intern Internal Identification	Kurzname Short name	Chemische Zusammensetzung in % (Massenanteil) Chemical composition in % (by mass)					US-Norm, AISI US Standard, AISI
			C C	Cr Cr	Ni Ni	Mo Mo	Sonstige Other	
1.4742	NF 88	X10CrAl 18	≤ 0,12	17,0 – 19,0				Al 0,7 – 1,2
1.4878	8 H	X9CrNiTi 18 - 10	≤ 0,10	17,0 – 19,0	9,0 – 12,0			Ti ≥ 5 x C ≤ 0,80
1.4828	10 H	X15CrNiSi 20 - 12	≤ 0,20	19,0 – 21,0	11,0 – 13,0			Si 1,5 – 2,5
1.4833	10 HH	X12CrNi 23 - 13	≤ 0,15	22,0 – 24,0	12,0 – 14,0			Si ≤ 1,0
1.4835	10 HCE	X9CrNiSiNCE 21 - 11 - 2	0,05 – 0,12	20,0 – 22,0	10,0 – 12,0			Ce 0,03 – 0,08
1.4841	20 H	X15CrNiSi 25 - 20	≤ 0,20	24,0 – 26,0	19,0 – 22,0			Si 1,5 – 2,5
1.4843	20 HS	X16CrNi 25 - 20	≤ 0,20	22,0 – 25,0	19,0 – 22,0			Si 1,5 – 2,5
1.4845	20 HH	X8CrNi 25 - 21	≤ 0,10	24,0 – 26,0	19,0 – 22,0			Si ≤ 1,50
1.4860	30 H	X16NiCr 30 - 20	≤ 0,20	20,0 – 22,0	28,0 – 31,0			Si 2,0 – 3,0
1.4862	35 HH	X8NiCrSi 38 - 18	≤ 0,10	17,0 – 19,0	35,0 – 39,0			Si 1,5 – 2,5
1.4864	35 H	X12NiCrSi 36 - 16	≤ 0,15	15,0 – 17,0	33,0 – 37,0			Si 1,0 – 2,0
2.4867	60 H	NiCr 60 - 15	≤ 0,15	14,0 – 19,0	≥ 59			Si 0,5 – 2,0
2.4869	80 H	NiCr 80 - 20	≤ 0,15	19,0 – 21,0	≥ 75			Si 0,5 – 2,0

Sonderwerkstoffe

Special alloys

Werkstoff Material	Bezeichnung intern Internal Identification	Kurzname Short name	Chemische Zusammensetzung in % (Massenanteil) Chemical composition in % (by mass)					US-Norm, AISI US Standard, AISI
			C C	Cr Cr	Ni Ni	Mo Mo	Sonstige Other	
2.4602	Hast. C22	NiCr21Mo14W	≤ 0,01	20,0 – 22,5	Rest.	12,5 – 14,5	W 2,5 – 3,5; V ≤ 0,35; Co ≤ 2,5; Fe 2,0 – 6,0	
2.4610	Hast. C4	NiMo16Cr16Ti	≤ 0,015	14,0 – 18,0	Rest.	14,0 – 18,0	Co ≤ 2,0; Cu ≤ 0,5; Ti ≤ 0,7; Fe ≤ 3,0	
2.4816	INC 600	NiCi15Fe	≤ 0,05 – 0,10	14,0 – 17,0	≥ 72		Cu ≤ 0,5; Ti ≤ 0,3; Al ≤ 0,3; Fe 6,0 - 10,0	
2.4819	Hast. C276	NiMo16Cr15W	≤ 0,015	14,5 – 16,5	Rest.	15,0 – 17,0	W 3,0 – 4,5; Cu ≤ 0,5; Co ≤ 2,5; Fe 4,0 – 7,0	
2.4851	INC 601	NiCr23Fe	≤ 0,03 – 0,10	21,0 – 25,0	58 – 63		Al 1,0 – 1,7; Cu ≤ 0,5; Ti ≤ 0,5; Fe ≤ 18	
2.4856	INC 625	NiCr22Mo9Nb	≤ 0,03 – 0,10	20,0 – 23,0	≥ 58	8,0 – 10,0	Nb 3,15 – 4,15; Al ≤ 0,4; Ti ≤ 0,4; Fe ≤ 3,0	
2.4858	INC 825	NiCr21Mo	≤ 0,025	19,5 – 23,5	38,0 – 46,0	2,5 – 3,5	Cu 1,5 – 3,0; Ti 0,6 – 1,2; Co ≤ 1; Fe Rest.	
1.4876	INC 800	X10NiCrAlTi 32 - 21	≤ 0,12	19,0 – 23,0	30,0 – 34,0		Al 0,15 – 0,60; Ti 0,15 – 0,60	
1.4893	253 MA	X9CrNiSiNCE 21 - 11 - 2	≤ 0,10	20,0 – 22,0	10,0 - 12,0		Si 1,1 – 2,0; Cer	