

第 19 表 AWS ニッケル及びニッケル合金溶加棒及びワイヤ (AWS A5.14/A5.14M : 2018 抜粋)

AWS (12) Classification	化 学 成 分 (%)											Nb(Cb) +Ta	Cr	Ti	Mo	V	W	Other elements, total	材 質
	C	Mn	Fe	P	S	Si	Cu	Ni (3)	Co	Al	Al								
ERNi-1 (10)	0.15	1.0	1.0	0.03	0.015	0.75	0.25	93.0min	—	1.5	2.0~3.5	—	—	—	—	—	0.50	WEL TIG Ni-1 WEL ARG TIG Ni-1	
ERNiCr-7 (10)	0.15	4.0	2.5	0.02	0.015	1.25	Rem	62.0 ~69.0	—	1.25	1.5~3.0	—	—	—	—	—	0.50	WEL TIG MOCU-7 WEL ARG TIG MOCU-7	
ERNiCr-8 (10)	0.25	1.5	2.0	0.03	0.015	1.00	Rem	63.0 70.0	—	2.0 ~4.0	0.25~1.00	—	—	—	—	—	0.50	—	
ERNiCr-3 (10)(11)	0.10 ~0.10	2.5 ~3.5	3.0	0.03	0.015	0.50	0.50	67.0min	(4)	—	0.75	18.0~22.0	—	—	—	—	0.50	WEL TIG 82 WEL ARG TIG 82	
ERNiCr-4	0.01 ~0.01	0.20	0.50	0.02	0.015	0.20	0.50	Rem	—	—	0.3~1.0	42.0~46.0	—	—	—	—	0.50	—	
ERNiCr-6 (10)	0.08 ~0.15	1.00	2.00	0.03	0.015	1.30	0.50	75.0min	—	0.40	0.15~0.50	19.0~21.0	—	—	—	—	0.50	—	
ERNiCr-7 (17)	0.03	0.50	1.0	0.02	0.015	0.30	0.30	Rem	1.0	0.75 ~1.20	0.25~0.75	36.0~39.0	0.25~1.00	0.50	—	—	0.50	—	
ERNiCr-Co-1	0.01 ~0.06	1.0	3.0	0.03	0.015	1.0	0.50	Rem.	15.0 ~22.0	0.5 ~2.0	0.8~2.5	23.5~25.5	0.5~2.5	2.0	—	—	0.50	—	
ERNiCr-CoMo-1	0.01 ~0.015	1.0	3.0	0.03	0.015	1.0	0.50	Rem.	9.0 ~15.0	0.5 ~1.5	0.60	20.0~24.0	—	8.0~10.0	—	—	0.50	WEL TIG 617 WEL ARG TIG 617	
ERNiCr-CoMo-2	0.04 ~0.08	0.30	1.5	0.015	0.015	0.15	0.1	Rem.	9.0 ~11.0	1.38 ~1.65	1.90~2.30	18.5~20.5	0.3	8.0~9.0	—	—	0.50	—	
ERNiCr-Fe-5 (10)	0.08	1.0	6.0	0.03	0.015	0.35	0.50	70.0min	(4)	—	—	14.0~17.0	1.5~3.0(5)	—	—	—	0.50	—	
ERNiCr-Fe-6 (10)	0.08	2.0 ~2.7	8.0	0.03	0.015	0.35	0.50	67.0min	—	—	2.5~3.5	14.0~17.0	—	—	—	—	0.50	—	
ERNiCr-Fe-7 (9)	0.04	1.0	7.0 ~11.0	0.02	0.015	0.50	0.30	Rem	—	1.10	1.0	28.0~31.5	0.10	0.50	—	—	0.50	—	
ERNiCr-Fe-7A (9)(15)	0.04	1.0	7.0 ~10.0	0.02	0.015	0.50	0.30	Rem	0.12	1.10	1.0	28.0~31.5	0.5~1.0	0.50	—	—	0.50	—	
ERNiCr-Fe-8 (11)	0.08	1.0	5.0	0.03	0.015	0.50	0.50	70.0min	—	0.4	2.00~2.75	14.0~17.0	0.70~1.20	—	—	—	0.50	—	
ERNiCr-Fe-10	0.10	1.0	Rem	0.03	0.015	0.50	1.0	58.0 ~63.0	—	1.0 ~1.7	0.10~0.20	21.0~25.0	—	—	—	—	0.50	WEL TIG 601 WEL ARG TIG 601	
ERNiCr-Fe-12	0.15 ~0.25	0.50	8.0 ~11.0	0.020	0.010	0.5	0.1	Rem	1.0	1.5 ~2.4	0.10~0.20	24.0~26.0	—	—	—	—	0.50	—	
ERNiCr-Fe-13 (17)	0.03	1.0	Rem	0.02	0.015	0.50	0.30	52.0 ~62.0	0.10	0.50	0.50	28.5~31.0	2.1~4.0	3.0~5.0	—	—	0.50	—	
ERNiCr-Fe-14	0.04	3.0	7.0 ~12.0	0.020	0.015	0.50	0.30	Rem.	—	0.50	0.50	28.0~31.5	1.0~2.5	0.50	—	—	0.50	—	
ERNiCr-Fe-15	0.020 ~0.055	2.5 ~3.5	3.0	0.02	0.015	0.50	0.3	Rem.	0.10	0.60	0.10~0.40	26.0~28.0	2.0~2.8	—	—	—	0.50	—	
ERNiCr-Fe-16	0.05 ~0.12	1.0	21.0 ~25.0	0.020	0.010	2.5	0.3	Rem	1.0	0.30	—	26.0~29.0	—	—	—	—	0.50	—	
ERNiCr-Fe-18	0.15	1.0	2.5 ~6.0	0.03	0.01	0.5	0.5	Rem	—	2.5 ~4.0	1.0	27.0~31.0	0.5~2.5	—	—	—	0.50	—	
ERNiCr-Fe-18 (10)	0.05	1.0	22.0min	0.03	0.03	0.50	1.5 ~3.0	38.0 ~46.0	—	0.20	0.60~1.2	19.5~23.5	—	2.5~3.5	—	—	0.50	WEL TIG 65 WEL ARG TIG 65	
ERNiCr-2 (6)	0.08	0.35	Rem	0.015	0.015	0.35	0.30	50.0 ~55.0	—	0.20 ~0.80	0.65~1.15	17.0~21.0	4.75~5.50	2.80~3.30	—	—	0.50	WEL TIG 718 WEL ARG TIG 718	
ERNiCr-C-3	0.005 ~0.010	1.0	Rem.	0.03	0.015	0.5	1.5 ~3.0	45.0 ~50.0	—	0.01 ~0.70	0.5~2.5	19.5~23.0	2.5~4.5	3.0~4.0	—	—	0.50	—	
ERNiMo-1	0.08	1.0	4.0	0.025	0.03	1.0	0.50	Rem	2.5	—	—	1.0	—	26.0~30.0 ~0.40	1.0	0.50	—		
ERNiMo-2	0.04 ~0.08	1.0	5.0	0.015	0.02	1.0	0.50	Rem	0.20	—	—	6.0~8.0	—	15.0~18.0	0.50	0.50	—		
ERNiMo-3	0.12	1.0	4.0 ~7.0	0.04	0.03	1.0	0.50	Rem	0.25	—	—	4.0~6.0	—	23.0~26.0	1.0	0.50	WEL TIG HW WEL ARG TIG HW		

ERNiM6-7	0.02	1.0	2.0	0.04	0.03	0.10	0.50	Rem	1.0	—	—	1.0	—	260~300	—	1.0	0.50		
ERNiM6-8	0.10	1.0	3.0	0.015	0.015	0.50	0.50	60/0min	—	—	—	0.5~3.5	—	180~210	—	2.0	0.50		
ERNiM6-9	0.10	1.0	5.0	0.015	0.015	0.50	0.3	65/0min	—	1.0	—	—	—	190~220	—	2.0	0.50		
ERNiM6-10 (13)	0.01	3.0	1.0, 3.0	0.03	0.01	0.10	0.20	65/0min	3.0	0.50	0.20	1.0~3.0	0.20	27.0~32.0	0.20	3.0	0.50		
ERNiM6-11	0.010	1.0	2.0, 5.0	0.020	0.010	0.10	0.5	Rem	1.0	0.1	0.5	0.30	0.5~1.5	0.50	26.0~30.0	—	0.50		
ERNiM6-12 (16)	0.03	0.80	2.0	0.030	0.015	0.80	0.50	Rem	1.0	0.50	—	7.0~9.0	—	24.0~26.0	—	—	0.50		
ERNiM6Cr-1	0.010	0.60	1.25	0.025	0.010	0.08	—	Rem.	—	0.50	—	13.8~15.6	—	21.5~23.0	—	—	0.50		
ERNiM6-1	0.05	1.0	1.80	0.04	0.03	1.0	1.5	Rem.	2.5	—	—	20.0~23.5	1.75~2.50	5.5~7.5	—	1.0	0.50	WEL TIG HG WEL Auto TIG HG	
ERNiM6-2	0.05	1.0	17.0	0.04	0.03	1.0	0.50	Rem	0.5	~2.5	—	20.3~23.0	—	8.0~10.0	—	0.2	0.50	WEL TIG HG WEL Auto TIG HG	
ERNiM6-3 (10)	0.10	0.50	5.0	0.02	0.015	0.50	0.50	58/0min	—	0.40	0.40	20.0~23.0	3.15~4.15	8.0~10.0	—	—	0.50	WEL TIG HG WEL Auto TIG HG	
ERNiM6-4	0.02	1.0	4.0	0.04	0.03	0.08	0.50	Rem	2.5	—	—	14.5~16.5	—	15.0~17.0	0.35	3.0	0.50	WEL TIG HG WEL Auto TIG HG	
ERNiM6-7	0.015	1.0	3.0	0.04	0.03	0.08	0.50	Rem	2.0	—	0.70	14.0~18.0	—	14.0~18.0	—	—	0.50	WEL TIG HG WEL Auto TIG HG	
ERNiM6-8	0.03	1.0	Rem	0.03	0.03	1.0	0.7	47.0	Rem	—	0.70~1.50	23.0~26.0	—	5.0~7.0	—	—	0.50	WEL TIG HG WEL Auto TIG HG	
ERNiM6-9	0.015	1.0	1.80	0.04	0.03	1.0	1.5	Rem	5.0	—	—	20.0~23.5	0.50	6.0~8.0	—	1.5	0.50	WEL TIG HG-22 WEL Auto TIG HC-22	
ERNiM6-10	0.015	0.50	2.0, 6.0	0.02	0.010	0.08	0.50	Rem	2.5	—	—	21.0~22.5	—	12.5~14.5	0.35	2.5	0.50	WEL TIG HG-30 WEL Auto TIG HG-30	
ERNiM6-11	0.03	1.5	1.30	0.04	0.02	0.80	1.0	Rem	5.0	—	—	28.0~31.5	0.30~1.50	4.0~6.0	—	1.5	0.50		
ERNiM6-13	0.010	0.5	1.5	0.015	0.010	0.10	0.50	Rem	0.3	0.1	~0.4	—	22.0~24.0	—	15.0~16.5	—	—	0.50	
ERNiM6-14	0.01	1.0	5.0	0.02	0.02	0.08	0.5	Rem	—	0.5	0.25	19.0~23.0	—	15.0~17.0	—	3.0	0.50		
ERNiM6-15	0.03	0.35	Rem	0.015	0.01	0.20	—	55.0	—	0.35	1.0~1.7	19.0~22.5	2.75~4.00	7.0~9.5	—	—	0.50	WEL TIG CRE WEL Auto TIG CRE	
ERNiM6-16	0.02	1.0	2.0	0.04	0.03	1.0	—	Rem	—	—	—	20.0~31.0	—	10.0~12.0	0.4	—	0.50		
ERNiM6-17	0.010	0.5	3.0	0.025	0.010	0.08	1.3	Rem	2.0	0.50	—	22.0~24.0	—	15.0~17.0	—	—	0.50		
ERNiM6-18 (14)	0.03	0.5	12.0	0.020	0.010	0.50	0.30	Rem	1.0	0.05	~0.50	—	19.0~21.0	0.05~0.50	9.5~12.5	0.30	0.5	0.50	
ERNiM6-19 (16)	0.01	0.5	1.5	0.015	0.010	0.10	0.50	Rem	0.3	0.4	—	20.0~23.0	—	18.5~21.0	—	0.3	0.50		
ERNiM6-20	0.03	0.5	2.0	0.015	0.015	0.5	0.3	Rem	0.2	0.4	0.4	21.0~23.0	0.2	9.0~11.0	—	2.0	0.50		
ERNiM6-21	0.03	0.5	1.0	0.015	0.015	0.5	0.2	Rem	0.2	0.4	0.4	24.0~26.0	—	14.0~16.0	—	0.3	0.50		
ERNiM6-22	0.050	0.50	2.00	0.030	0.015	0.60	0.30	Rem	1.00	0.40	0.2	32.25~34.25	0.5	7.60~9.00	0.20	0.60	0.50		
ERNiM6MoWNB1	0.03	—	0.50	0.02	0.015	0.1	—	56.0	1.0	0.5	1.2~3.0	17.0~23.0	3.0~5.0	5.0~8.0	—	4.0	0.50		
ERNiM6CoSb-1	0.02	1.0	3.5	0.030	0.015	2.4	0.50	Rem	27.0	0.40	0.20~0.60	26.0~29.0	0.30	0.7	—	0.5	0.50		
ERNiM6-1 (7) (8)	0.05	0.3	—	0.03	0.015	0.25	0.50	Rem	5.0	0.2	~0.5	—	20.0~24.0	—	1.0~3.0	—	13.0	0.50	
ERNiM6-1 (9)	0.15	—	—	0.03	0.015	~0.75	—	—	—	—	—	—	—	—	—	—	—	—	

(1) 分析値の表に規定された数値が示してある圧力について行う場合も、通常の分析で他の圧力が含まれる場合、表中に規定された範囲が満たない場合を分析しなくてはならない。
(2) 分析値の表に規定された数値が示してある圧力について行う場合、通常の分析で他の圧力が含まれる場合、表中に規定された範囲が満たない場合を分析しなくてはならない。
(3) MIL-C-26200 max. (4) MIL-C-26200 max. (5) MIL-C-26200 max. (6) MIL-C-26200 max. (7) MIL-C-26200 max. (8) MIL-C-26200 max. (9) MIL-C-26200 max. (10) MIL-C-26200 max. (11) EN50721 max. (12) EN50721 max. (13) EN50721 max. (14) EN50721 max. (15) EN50721 max. (16) EN50721 max. (17) EN50721 max. (18) EN50721 max. (19) EN50721 max. (20) EN50721 max. (21) EN50721 max. (22) EN50721 max. (23) EN50721 max. (24) EN50721 max. (25) EN50721 max. (26) EN50721 max. (27) EN50721 max. (28) EN50721 max. (29) EN50721 max. (30) EN50721 max. (31) EN50721 max. (32) EN50721 max. (33) EN50721 max. (34) EN50721 max. (35) EN50721 max. (36) EN50721 max. (37) EN50721 max. (38) EN50721 max. (39) EN50721 max. (40) EN50721 max. (41) EN50721 max. (42) EN50721 max. (43) EN50721 max. (44) EN50721 max. (45) EN50721 max. (46) EN50721 max. (47) EN50721 max. (48) EN50721 max. (49) EN50721 max. (50) EN50721 max. (51) EN50721 max. (52) EN50721 max. (53) EN50721 max. (54) EN50721 max. (55) EN50721 max. (56) EN50721 max. 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