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Process	Product Name	Classification (AWS)	Mechanical Property of Weld Metal		Chemical Composition (mass %)												
			TS (Mpa)	EL (%)	C	Si	Mn	Cr	Ni	Nb	Fe	Al	Ti	Mo	Cu	P	S	Others
GMAW GTAW	KMS - 96 KTS - 96	ERNi-1	514	44	0.020	0.47	0.40	-	95.70	0.01	-	0.10	3.10	-	0.004	0.003	0.001	
	KMS - 60 KTS - 60	ERNiCu-7	541	39	0.050	0.33	3.40	-	64.80	-	-	0.09	2.24	-	28.97	0.001	0.002	
	KMS - 82 KTS - 82	ERNiCr-3	671	41	0.040	0.09	2.90	20.00	72.40	2.35	-	-	0.45	0.02	-	0.004	0.001	
	KMS - 75 KTS -75	ERNiCrFe-5	651	45	0.011	0.16	2.90	17.00	72.60	1.80	4.90	0.16	0.40	-	0.010	0.003	0.002	
	KMS - 601 KTS - 601	ERNiCrFe-11	662	42	0.040	0.30	0.51	22.94	59.70	-	15.19	1.31	-	-	0.009	0.001	0.001	
	KMS - 67 KTS - 67	ERCuNi	816	48	0.040	0.03	0.76	-	31.01	-	-	-	0.26	-	67.200	0.001	0.002	
	KMS - 617 KTS - 617	ERNiCrCoMo-1	749	34	0.007	0.30	0.30	22.40	54.86	-	-	1.20	-	-	0.020	0.003	0.001	
	KMS - 59 KTS - 59	ERNiCrMo-13	662	42	0.003	0.03	0.20	22.90	60.61	-	-	0.20	0.01	15.50	0.010	0.006	0.002	
	KMS - 61 KTS - 61	ERNiCrMo-3	819	39	0.010	0.06	0.04	21.90	63.90	3.52	-	0.17	0.23	8.80	0.010	0.002	0.002	
	KMS - 17 KTS - 17	ERNiCrMo-4	729	45	0.003	0.02	0.30	16.00	57.66	-	-	-	-	16.20	0.030	0.001	0.003	V 0.23 W 3.4
	KMS - 22 KTS - 22	ERNiCrMo-10	740	46	0.001	0.06	0.20	22.19	55.80	-	-	-	-	14.11	0.010	0.001	0.001	Co 0.02 W 3.0
	KMS - 65 KTS - 65	ERNiFeCr-1	602	33	0.010	0.18	0.50	21.30	42.30	-	30.34	0.06	0.60	2.70	2.000	0.010	0.001	
	KMS-44 KTS-44	ERNiFeMn-Cl	602	33	0.340	0.20	11.80	-	42.07	-	45.54	0.01	-	-	0.030	0.004	0.002	
	KMS - 200 KTS - 200	ERNi-Cl	766	20	0.380	0.02	0.13	-	99.73	-	-	-	-	-	0.02	0.001	0.001	Co 0.009
SAW	KW-96	ERNi-1	514	44	0.020	0.47	0.40	-	95.70	0.01	-	0.10	3.10	-	0.004	0.003	0.001	
	KW-60	ERNiCu-7	541	39	0.050	0.33	3.40	-	64.80	-	-	0.09	2.24	-	28.97	0.001	0.002	
	KW-82	ERNiCr-3	671	41	0.040	0.09	2.90	20.00	72.40	2.35	-	-	0.45	0.02	-	0.004	0.001	
	KW-75	ERNiCrFe-5	651	45	0.011	0.16	2.90	17.00	72.60	1.80	4.90	0.16	0.40	-	0.010	0.003	0.002	
	KW-601	ERNiCrFe-11	662	42	0.040	0.30	0.51	22.94	59.70	-	15.19	1.31	-	-	0.009	0.001	0.001	
	KW-67	ERCuNi	816	48	0.040	0.03	0.76	-	31.01	-	-	-	0.26	-	67.200	0.001	0.002	
	KW-617	ERNiCrCoMo-1	749	34	0.007	0.30	0.30	22.40	54.86	-	-	1.20	-	-	0.020	0.003	0.001	
	KW-59	ERNiCrMo-13	662	42	0.003	0.03	0.20	22.90	60.61	-	-	0.20	0.01	15.50	0.010	0.006	0.002	
	KW-61	ERNiCrMo-3	819	39	0.010	0.06	0.04	21.90	63.90	3.52	-	0.17	0.23	8.80	0.010	0.002	0.002	
	KW-17	ERNiCrMo-4	729	45	0.003	0.02	0.30	16.00	57.66	-	-	-	-	16.20	0.030	0.001	0.003	V 0.23
	KW-22	ERNiCrMo-10	740	46	0.001	0.06	0.20	22.19	55.80	-	-	-	-	14.11	0.010	0.001	0.001	Co 0.02 W 3.0
	KW-65	ERNiFeCr-1	602	33	0.010	0.18	0.50	21.30	42.30	-	30.34	0.06	0.60	2.70	2.000	0.010	0.001	
	KW-44	ERNiFeMn-Cl	602	33	0.340	0.20	11.80	-	42.07	-	45.54	0.01	-	-	0.030	0.004	0.002	
	KW-200	ERNi-Cl	766	20	0.380	0.02	0.13	-	99.73	-	-	-	-	-	0.02	0.001	0.001	Co 0.009

Process	Product Name	Classification (AWS)	Mechanical Property of Weld Metal			Chemical Composition of Deposited Metal (mass %)												
			TS (Mpa)	EL (%)	CVN (J@-196°C)	C	Si	Mn	Cr	Ni	Nb	Fe	Co	Ti	Mo	W	Cu	P	S
SMAW	KNi-70C	A5.11 ENiCrFe-3	630	41	98	0.060	0.54	6.20	13.50	69.20	1.70	9.23	0.11	0.07	-	-	-	0.006	0.007
	KNi-60-3	A5.11 ENiCrMo-3	770	39	60	0.042	0.28	0.36	21.58	62.30	3.18	3.20	-	-	8.90	-	-	0.009	0.008
	KNi-60-4	A5.11 ENiCrMo-4	730	40	50	0.040	0.34	0.71	16.40	Bal.	-	5.30	-	-	16.82	3.54	-	0.003	0.003
	KNi-60-7	A5.11 ENiCu-7	500	43	100	0.004	0.68	3.18	-	66.50	-	0.51	-	0.18	-	-	Bal.	0.009	0.008