

# Classification Of MMW Covered Electrodes Of Nickel And Nickel Alloys As Per TS 9666 EN ISO 14172

## E - Ni 6059 (NiCr23Mo16)

Table 2 Continue

Alloy Symbol		Chemical Composition %													Mechanical Values			
Numerical	Chemical	C	Mn	Fe	Si	Cu	Ni	Co	Al	Ti	Cr	Nb	Mo	V	W	Yield Strength N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>	Elongation Min. A %
Ni 1001	NiMo28Fe5	0.07	1.0	4.0-7.0	1.0	0.5	Min. 55.0	2.5	-	-	1.0	-	26.0-30.0	0.6	1.0	400	690	22
Ni 1004	NiMo25Cr5Fe5	0.12	1.0	4.0-7.0	1.0	0.5	Min. 60.0	-	-	-	2.5-5.5	-	23.0-27.0	0.6	1.0	400	690	22
Ni 1008	NiMo19WCr	0.10	1.5	10.0	0.8	0.5	Min. 60.0	-	-	-	0.5-3.5	-	17.0-20.0	-	2.0-4.0	360	650	22
Ni 1009	NiMo20WCu	0.10	1.5	7.0	0.8	0.3-1.3	Min. 62.0	-	-	-	-	-	18.0-22.0	-	2.0-4.0	360	650	22
Ni 1062	NiMo24Cr8Fe6	0.02	1.0	4.0-7.0	0.7	-	Min. 60.0	-	-	-	6.0-9.0	-	22.0-26.0	-	-	360	550	18
Ni 1066	NiMo28	0.02	2.0	2.2	0.2	0.5	Min. 64.5	-	-	-	1.0	-	26.0-30.0	-	1.0	400	690	22
Ni 1067	NiMo30Cr	0.02	2.0	1.0-3.0	0.2	0.5	Min. 62.0	3.0	-	-	1.0-3.0	-	27.0-32.0	-	3.0	350	690	22
Ni 1069	NiMo28Fe4Cr	0.02	1.0	2.0-5.0	0.7	-	Min. 65.0	1.0	0.5	-	0.5-1.5	-	26.0-30.0	-	-	360	550	20
Ni 6002	NiCr22Fe18Mo	0.05-0.15	1.0	17.0-20.0	1.0	0.5	Min. 45.0	0.5-2.5	-	-	20.0-23.0	-	8.0-10.0	-	0.2-1.0	380	650	18
Ni 6012	NiCr22Mo9	0.03	1.0	3.5	0.7	0.5	Min. 58.0	-	0.4	0.4	20.0-23.0	1.5	8.5-10.5	-	-	410	650	22
Ni 6022	NiCr21Mo13W3	0.02	1.0	2.0-6.0	0.2	0.5	Min. 49.0	2.5	-	-	20.0-22.5	-	12.5-14.5	0.4	2.5-3.5	350	690	22
Ni 6024	NiCr26Mo14	0.02	0.5	1.5	0.2	0.5	Min. 55.0	-	-	-	25.0-27.0	-	13.5-15.0	-	-	350	690	22
Ni 6030	NiCr29Mo5Fe15W2	0.03	1.5	13.0-17.0	1.0	1.0-2.4	Min. 36.0	5.0	-	-	28.0-31.5	0.3-1.5	4.0-6.0	-	1.5-4.0	350	585	22
Ni 6059	NiCr23Mo16	0.02	1.0	1.5	0.2	-	Min. 56.0	-	-	-	22.0-24.0	-	22.0-24.0	-	-	350	690	22
Ni 6200	NiCr23Mo16Cu2	0.02	1.0	3.0	0.2	1.3-1.9	Min. 45.0	2.0	-	-	20.0-24.0	-	15.0-17.0	-	-	400	690	22
Ni 6205	NiCr25Mo16	0.02	0.5	5.0	0.2	2.0	Min. 50.0	-	0.4	-	22.0-27.0	-	13.5-16.5	-	-	400	690	22
Ni 6275	NiCr15Mo16Fe5W3	0.10	1.0	4.0-7.0	1.0	0.5	Min. 50.0	2.5	-	-	14.5-16.5	-	15.0-18.0	0.4	3.0-4.5	400	690	22
Ni 6276	NiCr15Mo15Fe6W4	0.02	1.0	4.0-7.0	0.2	0.5	Min. 50.0	2.5	-	-	14.5-16.5	-	15.0-17.0	0.4	3.0-4.5	350	690	22
Ni 6452	NiCr19Mo15	0.025	2.0	1.5	0.4	0.5	Min. 56.0	-	-	-	18.0-20.0	0.4	14.0-16.0	0.4	-	350	690	22
Ni 6455	NiCr16Mo15Ti	0.02	1.5	3.0	0.2	0.5	Min. 56.0	2.0	-	0.7	14.0-18.0	-	14.0-17.0	-	0.5	300	690	22
Ni 6620	NiCr14Mo7Fe	0.10	2.0-4.0	10.0	1.0	0.5	Min. 55.0	-	-	-	12.0-17.0	0.5-2.0	5.0-9.0	-	1.0-2.0	350	620	32
Ni 6625	NiCr22Mo9Nb	0.10	2.0	7.0	0.8	0.5	Min. 55.0	-	-	-	20.0-23.0	3.0-4.2	8.0-10.0	-	-	420	760	27
Ni 6627	NiCr21MoFeNb	0.03	2.2	5.0	0.7	0.5	Min. 57.0	-	-	-	20.5-22.5	1.0-2.8	8.8-10.0	-	0.5	400	650	32
Ni 6650	NiCr20Fe14Mo11W	0.03	0.7	12.0-15.0	0.6	0.5	Min. 44.0	1.0	0.5	-	19.0-22.0	0.3	10.0-13.0	-	1.0-2.0	420	660	30
Ni 6686	NiCr21Mo16W4	0.02	1.0	5.0	0.3	0.5	Min. 49.0	-	-	0.3	19.0-23.0	-	15.0-17.0	-	3.0-4.4	350	690	27
Ni 6985	NiCr22Mo7Fe19	0.02	1.0	18.0-21.0	1.0	1.5-2.5	Min. 45.0	5.0	-	-	21.0-23.5	1.0	6.0-8.0	-	1.5	350	620	22
Ni 6617	NiCr	0.05-0.15	3.0	5.0	1.0	0.5	Min. 45.0	9.0-15.0	1.5	0.6	20.0-26.0	1.0	8.0-10.0	-	-	400	620	22

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