

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

E - Ni 6059 (NiCr23Mo16)																				
Production Type																				
G Wire Electrodes																				
O Oxy-acetylene																				
E Electric arc welding																				
S Submerged arc																				
T Flux-cored wires																				
W TIG Rods																				
F Submerged arc																				
Mechanical Values																				
Yield Strength N/mm <sup>2</sup>																				
Tensile Strength N/mm <sup>2</sup>																				
Elongation Min. A %																				
W																				
V																				
Mo																				
Nb																				
Cr																				
Ti																				
Al																				
Co																				
Ni																				
Cu																				
Si																				
Fe																				
Mn																				
C																				
Chemical Composition %																				
Alloy Symbol																				
Numerical																				
Chemical																				
Ni 2061	NiTi3	0.10	0.7	1.2	0.2	0.2	0.2	1.0	1.0-4.0	-	-	-	-	-	-	-	-	200	410	18
Ni 4060	NiCu30Mn3Ti	0.15	4.0	1.5	27.0-34.0	Min. 62.0	-	1.0	1.0	-	-	-	-	-	-	-	-	200	480	27
Ni 4061	NiCu27Mn3NbTi	0.15	4.0	1.3	24.0-31.0	Min. 63.0	-	1.0	1.5	-	3.0	-	-	-	-	-	-	200	480	27
Ni 6082	NiCr20Mn3Nb	0.10	2.0-6.0	0.8	0.5	Min. 63.0	-	0.5	18.0-22.0	1.5-3.0	2.0	-	-	-	-	-	-	360	600	22
Ni 6231	NiCr22W14Mo	0.05-0.10	0.3-1.0	3.0	0.3-0.7	0.5	Min. 45.0	5.0	20.0-24.0	-	1.0-3.0	-	-	-	-	-	-	350	620	18
Ni 6025	NiCr25Fe10AlY	0.10-0.25	0.5	8.0-11.0	0.8	-	Min. 55.0	-	1.5-2.2	0.3	24.0-26.0	-	-	-	-	-	-	400	690	12
Ni 6062	NiCr15Fe8Nb	0.08	3.5	11.0	0.8	0.5	Min. 62.0	-	13.0-17.0	0.5-4.0	-	-	-	-	-	-	-	360	550	27
Ni 6092	NiCr16Fe12NbMo	0.10	1.0-3.5	12.0	0.8	0.5	Min. 62.0	-	13.0-17.0	0.5-3.0	0.5-2.5	-	-	-	-	-	-	360	550	27
Ni 6093	NiCr16Fe8NbMo	0.20	1.0-5.0	12.0	1.0	0.5	Min. 60.0	-	13.0-17.0	1.0-3.5	1.0-3.5	-	-	-	-	-	-	360	650	18
Ni 6094	NiCr14Fe4NbMo	0.15	1.0-4.5	12.0	0.8	0.5	Min. 55.0	-	12.0-17.0	0.5-3.0	2.5-5.5	-	-	-	-	-	-	360	650	18
Ni 6095	NiCr15Fe8NbMoW	0.20	1.0-3.5	12.0	0.8	0.5	Min. 55.0	-	13.0-17.0	1.0-3.50	1.0-3.5	-	-	-	-	-	-	360	650	18
Ni 6152	NiCr30Fe9Nb	0.05	5.0	7.0-12.0	0.8	0.5	Min. 50.0	-	28.0-31.5	1.0-2.5	0.5	-	-	-	-	-	-	360	550	27
Ni 6182	NiCr15Fe6Mn	0.10	5.0-10.0	1.0	0.5	Min. 60.0	-	1.0	13.0-17.0	1.0-3.5	W-V-Mo-Nb-0.3 Max. Ta Where Specified	-	-	-	-	-	-	360	550	27
Ni 6333	NiCr25Fe16CoNbW	0.10	1.2-2.0	Min. 16.0	0.8-1.2	0.5	44.0-47.0	2.5-3.5	24.0-26.0	-	2.5-3.5	-	-	-	-	-	-	360	550	18
Ni 6701	NiCr36Fe7Nb	0.35-0.50	0.5-2.0	7.0	0.5-2.0	-	42.0-48.0	-	33.0-39.0	0.8-1.8	-	-	-	-	-	-	-	450	650	8
Ni 6702	NiCr28Fe6W	0.35-0.50	0.5-1.5	6.0	0.5-2.0	-	47.0-50.0	-	27.0-30.0	-	-	-	-	-	-	-	-	450	650	8
Ni 6704	NiCr25Fe10Al3YC	0.15-0.30	0.5	8.0-11.0	0.8	-	Min. 55.0	-	1.8-2.8	0.3	24.0-26.0	-	-	-	-	-	-	400	690	12
Ni 8025	NiCr29Fe30Mo	0.06	1.0-3.0	30.0	0.7	1.5-3.0	35.0-40.0	-	0.1	1.0*	27.0-31.0	1.0	2.5-4.5	-	-	-	-	240	550	22
Ni 8165	NiCr25Fe30Mo	0.03	1.0-3.0	30.0	0.7	1.5-3.0	37.0-42.0	-	0.1	1.0	23.0-27.0	-	3.5-7.5	-	-	-	-	240	550	22

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