

# Nickel Alloy

Product Name	Classification		Dia. (mm)		Typical chemical composition of weld metal		Mechanical properties									Applications and Characteristics
	AWS A5.14	JIS Z 3334			TS MPa (ksi)	EL %	C	Mn	Si	Cr	Ni	Mo	Fe	Ti	Nb	
TGA-61 MIG-61	ERNiCrMo-3	YNiCrMo-3	TGA 1.2, 1.6, 2.0, 2.4, 3.2, 4.0	EN	-	0.10	0.50	0.50	20.0-23.0	58.0	8.0-10.0	5.0	0.4	3.15-3.45	-	For Inconel 625 and dissimilar metals welding.
				AWS												
				Typical value	785(114)	42	0.017	0.04	0.03	22.0	64.6	9.1	Nb: 3.41, P: 0.005 S: 0.005, Fe: 0.4 Ti: 0.21, Al: 0.1			
TGA-17 MIG-17	ERNiCrMo-4	YNiCrMo-4	MIG 1.0, 1.2, 1.6	EN	-	0.02	1.0	0.08	14.5-16.5	Rem	15.0-17.0	4.0-7.0	-	-	3.0-4.5	For Hastelloy C and Hastelloy C-276 welding.
				AWS												
				Typical value	740(107)	39	0.01	0.42	0.06	16.2	Bal	15.8	P: 0.01, S: 0.01 Fe: 5.63, W: 3.27			
TGA-60 MIG-60	ERNiCu-7	YNiCu-7	TW 2.4 3.2 4.0	EN	-	0.15	4.0	1.25	Rem	62.0-69.0	-	2.5	1.5-3.0	-	-	The monel metal wire have excellent corrosion resistance. It can be used the monel alloy welding, dissimilar metal welding and overlaying.
				AWS												
				Typical value	530(77)	46	0.045	3.32	0.28	-	65.3	-	P: 0.004, S: 0.003 Ti: 2.26, Cu: :Bal			
TGA-82 MIG-82	ERNiCr-3	YNiCr-3		EN	-	0.10	2.5-3.5	0.50	18.0-22.0	67.0	-	3.00	0.75	2.0-3.0	-	It is suitable for Inconel, Incolloy, dissimilar metals welding and overlaying.
				AWS												
				Typical value	660(96)	37	0.02	2.94	0.15	19.1	Bal	-	Fe: 0.5, Nb: 2.47 Ti: 0.37			

\* Package Weight (kg) : TGA 5kg、10kg / MIG 15kg / TW 25kg

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