



CHUUA ELECTRODE

□ TIG. MIG WELDING CONSUMABLES

Application	Brand name		Size (mm)	Equivalent specification	Typical chemical composition of rod and wire (%)						Typical hardness of all-weld-metal		Main use
	TIG	MIG			C	Si	Mn	Cr	Ni	Mo	T.S N/mm <sup>2</sup> {kgf/mm <sup>2</sup> }	El. (%)	
For carbon steel	AG-50	—	TIG; Dia; 1.2~4.0 Length;1,000	AWS ER70S-G	0.08	0.82	1.55	—	—	—	570 {58}	33	Welding of pipes, steel sheets, plates and other structural steels where the requirements for quality and finish are exacting.
For stainless steel	TIG-308	MIG-308		AWS E308 JIS Y308	0.04	0.31	1.85	19.83	10.14	—	580 {59}	42	Welding of AISI Types 301,302,304,305 and 308.
	TIG-308L	MIG-308L	AWS E308L JIS Y308L	0.02	0.32	1.83	19.82	9.98	—	570 {58}	44	Welding of low carbon 18%Cr-8%Ni steels such as AISI Types 304L and 308L	
	TIG-309	MIG-309	AWS E309 JIS Y309	0.06	0.40	1.78	23.98	12.92	—	610 {62}	40	Welding of base metals of similar alloys in wrought or cast forms. Welding of dissimilar steels, such as Type 304 to carbon steel or low alloy steels.	
	TIG-309L	MIG-309L	AWS E309L JIS Y309L	0.03	0.38	1.74	23.94	12.94	—	590 {60}	42	Welding of similar alloys in wrought or cast forms. Joining Type 304 to carbon steel, welding the clad side of Type 304 clad steels.	
	TIG-310	MIG-310	AWS E310 JIS Y310	0.11	0.42	1.84	26.82	21.34	—	600 {61}	40	Welding of base metals of similar composition.	
	TIG-316	MIG-316	AWS E316 JIS Y316	0.05	0.40	1.54	18.94	12.34	2.28	580 {59}	38	Welding of 18%Cr-12%Ni-Mo steels.(AISI Type 316)	
	TIG-316L	MIG-316L	AWS E316L JIS Y316L	0.03	0.38	1.66	19.10	12.68	2.26	570 {58}	40	Welding of 18%Cr-12%Ni-Mo steels where the corrosion resistant qualities are required	
	TIG-410	—	AWS E410 JIS Y410	0.08	0.24	0.28	12.5	0.25	0.30	480 {49}	32	Welding of 13%Cr steels. Surfacing of carbon steel to resist corrosion, erosion or abrasion.	