

Thermanit 309 H

TIG rod, high-alloyed, austenitic stainless, heat resistant

	ons								
EN ISO 14343-A					AWS A5.9 / SFA-5.9				
W 22 12 H					ER309 (mod.)				
Characteris	tics and ty	pical fields (of applicat	ion					
Al-steels, e.g. an austenitic n	in annealing s	shops, hardeni e deposited wi	ng shops, ste th a ferrite co	am boiler c intent of ap	construction, the proximately 8%.	crude oi Preferat	l industry and the bly used for applica	ceram ations	esisting, ferritic CrSi- lics industry. Results in involving the attack of a 25 4 grade welding
Air and oxidizing combustion gas:		Atmospere Sulfur free Max. 2g S/Nm ³		max. Service 950°C 850°C					
Reducing combustion gas:			Sulfur free		900°C				
Base materi	ials								
Heat resistant	austenitics:	1.4828 X15CrN X10CrAlSi7, 1.				1.4742	X10CrAISi18 AISI 3	305. AS	STM & 297 HF
Tunical anal	lucio							,	0111171207111
Typical anal	-		0		Ma		0-	,	
	C		Si 1 1		Mn 1.6		Cr 22 5		Ni
wt%	C 0.1	of all-wold	1.1	nical valu	1.6		Cr 22.5		
wt% Mechanical	C 0.1 properties		1.1 metal - ty		1.6 es (min. value	es)	22.5		Ni 11.5
wt%	C 0.1 properties	Yield strength	1.1 metal - ty	Tensile str	1.6 es (min. value	es) Elonga		Im	Ni 11.5 pact energy ISO-V KV J
wt% Mechanical Condition	C 0.1 properties	Yield strength MPa	1.1 metal - ty	Tensile str MPa	1.6 es (min. value rength R _m	es) Elonga %	22.5 ation A ($L_0 = 5d_0$)		Ni 11.5 pact energy ISO-V KV J °C
wt% Mechanical	C 0.1 properties	Yield strength MPa 500 (≥ 350)	1.1 metal - tyj R _{p0.2}	Tensile str	1.6 es (min. value rength R _m	es) Elonga	22.5 ation A ($L_0 = 5d_0$)	Im 20	Ni 11.5 pact energy ISO-V KV J °C
wt% Mechanical Condition	C 0.1 properties s-welded – s	Yield strength MPa 500 (≥ 350)	1.1 metal - tyj R _{p0.2}	Tensile str MPa	1.6 es (min. value rength R _m	es) Elonga %	22.5 ation A ($L_0 = 5d_0$)	Im 20	Ni 11.5 pact energy ISO-V KV J °C
wt% Mechanical Condition u u untreated, a	C 0.1 properties s-welded – s	Yield strength MPa 500 (≥ 350) hielding gas Ar	1.1 metal - tyj R _{p0.2}	Tensile str MPa	1.6 es (min. value rength R _m	es) Elonga % 32 (≥	22.5 ation A ($L_0 = 5d_0$)	Im 20	Ni 11.5 pact energy ISO-V KV J °C
wt% Mechanical Condition u u untreated, a	C 0.1 properties s-welded – s ata Polarity Shieldir	Yield strength MPa 500 (≥ 350) hielding gas A ng gas	1.1 metal - tyj R _{p02}	Tensile str MPa	1.6 es (min. value rength R _m	es) Elonga % 32 (≥	22.5 ation A (L ₀ =5d ₀) 25) nsion mm	Im 20	Ni 11.5 pact energy ISO-V KV J °C
wt% Mechanical Condition u u untreated, a	C 0.1 properties s-welded – s ata Polarity Shieldir (EN ISO	Yield strength MPa 500 (≥ 350) ihielding gas A hing gas 14175)	1.1 metal - typ R _{p02} r DC- I1	Tensile str MPa 630 (≥ 55	1.6 es (min. value ength R _m 0)	es) Elonga % 32 (≥ Dime 1.6 ×	22.5 ation A (L ₀ =5d ₀) 25) nsion mm	Im 20	Ni 11.5 pact energy ISO-V KV J °C
wt% Mechanical Condition u u untreated, a	C 0.1 properties s-welded – s ata Polarity Shieldir	Yield strength MPa 500 (≥ 350) ihielding gas A hing gas 14175)	1.1 metal - typ R _{p02} r DC- I1	Tensile str MPa	1.6 es (min. value ength R _m 0)	es) Elonga % 32 (≥ Dime 1.6 × 2.0 ×	22.5 ation A (L ₀ =5d ₀) 25) nsion mm 1000	Im 20	Ni 11.5 pact energy ISO-V KV J °C
wt% Mechanical Condition u u untreated, a Operating d Heat input, ma	C 0.1 properties s-welded – s ata Polarity Shieldir (EN ISO Rod ma ax. 2.0 kJ/mm d interpass te	Yield strength MPa 500 (≥ 350) hielding gas A hielding gas 14175) rking n, interpass ter	1.1 metal - typ R _{p0.2} r DC- 11 + W 22 mperature ma	Tensile str MPa 630 (≥ 55 12 H / 1.4 x. 150°C.	1.6 es (min. value ength R _m 0) 829	es) Elonga % 32 (≥ Dime 1.6 × 2.0 × 2.4 ×	22.5 attion A (L _o =5d _o) 25) nsion mm 1000 1000 1000	Im 20 11	Ni 11.5 pact energy ISO-V KV . °C