

Thermanit 309L Mo

Solid Wire, stainless, high-alloyed, special applications

Classifications															
EN ISO 14343-A								AWS A5.9 / SFA-5.9							
G 23 12 2 L								ER309LMo(mod.)							
Characteristics and typical fields of application															
Solid wire of type 309L Mo / 23 12 2 L for welding dissimilar joints of un-alloyed and stainless steels and for intermediate layers when welding cladded materials. The all-weld-metal ensures a high resistance against cracking and is also suitable for welding of high strength steels. When used for surfacing the composition is more or less equal to that of ASTM 316 from the first run.															
Base materials	;														
Dissimilar joints o	Dissimilar joints of un- or low-alloyed steels with stainless steels. Cladding on low-alloyed steels.														
Typical analysis															
	C Si		Si	Mn				Cr		Ni		Мо		FN	
wt%	0.02 0.3		0.3	5 1.50				21.50		15.0		2.70		8 (WRC 92)	
Mechanical properties of all-weld metal - typical values (min. values)															
Condition	Yield strength $R_{_{D0,2}}$			Tensile strength R _m		Elongation $(L_0=5d_0)$		n A	Impact energy ISO-		-V KV J		Hardness		
	MPa			MPa		%			20°C		-40°C		Brinell		
u	390		610		31			75		60		210			
u - untreated, Shie	u - untreated, Shielding gas Ar + 2 % 02														
Operating data															
Polarity DC (+)					Di			mension mm							
Shielding gas	Ar + 2 % 02 or Ar + 2 - 3 % C02				02	1.0									
(EN 130 14173)							1.2								
Approvals															
-															