

# **TIG 24/12M**

Old reference: TIG 309LMo

### Classification

AWS A5.9 : ~ER309LMo ISO 14343-A : W 23 12 2 L

## **Description & Applications**

Low carbon solid rod for GTAW of stainless steels with similar chemical composition like 309LMo, 309 and 309L. Well adapted for welding of dissimilar steels like low alloy steels, ferritic stainless steel like 430, martensitic stainless steel like 410. Molybden content improves corrosion resistance against acides.

Its high ferrite content allows greater dilution without risk of cracking. High Silicon content improves alloy fluidity during welding.

**Main applications:** Boiler making, civil engineering, maintenance and repairs...

<b>Typical</b>	Chemical	Composition (	( % )	

	С	Si	Mn	Cr	Ni	Мо	Cu	Nb	Р	S	Co	N
Min			1.0	21.0	12.0	2.0		-			-	-
Max	0.03	1.0	2.5	25.0	15.5	3.5	0.5	-	0.03	0.02	-	-
Type	0.015	0.55	1.5	21.5	14.5	2.6	0.10	0.01	0.02	0.01	0.06	0.08

# **All Weld Metal Mechanical Properties**

	$R_{p0.2}$ (MPa)	$R_{m}$ (MPa)	A <sub>5</sub> (%)	KV	(J)
Min	350	550	25	-	-
Max				-	-
Туре	400	600	35	+20°C	100

### **Welding Current & Instructions**

Welding mode	Shielding Gas			
TIG = -	ISO 14175 : I1 (Ar) 6-12 l/min Back shielding: I1 (Ar) / N1 (Nitrogen) : 3-6 l/min			

Back shielding with Argon or Nitrogen gas or with copper backing support to avoid "back end" rust phenomena.

FT En-TN19-200406