

# TFW-316LTM

AWS A5.22 E316LT0-4  
EN ISO 17633-A-T 19 12 3 L R M21 3  
JIS Z 3323 TS316L-F M 0

## Characteristics and Applications:

TFW-316LTM is designed for flat position welding by gas shield of mix gas (75~80% Argon and 25~20% CO<sub>2</sub>) An austenitic stainless steel deposited that can be used for joining Types 316,316L stainless steels. It provides high resistance to intergranular corrosion with low carbon weld deposit.

## Notes on usage:

1. Before welding, oil, rusty, and moisture should be cleaned off the base material that should have the proper protection from the wind in welding site.
2. Use with mix gas (75~80% Argon and 25~20% CO<sub>2</sub>).
3. Keep the product dry, while it is stored or delivered.

## Typical chemical composition of weld metal (wt%):

	C	Mn	Si	P	S	Cr	Ni	Mo	Cu
AWS	≤ 0.04	0.5-2.5	≤ 1.0	≤ 0.04	≤ 0.03	17.0-20.0	11.0-14.0	2.0-3.0	≤ 0.75
EN ISO	≤ 0.04	≤ 2.0	≤ 1.2	≤ 0.030	≤ 0.025	17.0-20.0	10.0-13.0	2.5-3.0	≤ 0.5
Typical value	0.024	1.48	0.68	0.025	0.007	18.61	12.18	2.79	0.06

## Typical mechanical properties of weld metal:

	Yield strength MPa(ksi)	Tensile strength MPa(ksi)	Elongation %
AWS	-	≥ 485(70)	≥ 30
EN ISO	≥ 320(46)	≥ 510(74)	≥ 25
Typical value	455(66)	576(84)	37

## Welding position:



## Size and recommended parameter range (DC<+>)

Stick out: 18-25 (mm), flow rate:20-25(l/min):

Diameter (mm)	1.2	1.6
Position		
F, HF	150-220A / 25~33V	200A-300A / 27V-35V

\* The information contained or otherwise referenced herein is presented only as "typical" without guarantee or warranty, and TienTai Electrode Co., Ltd. expressly disclaims any liability incurred from any reliance thereon. Typical data is obtained when welded and tested in accordance with AWS specification. Other tests and procedures may produce different results. No data is to be construed as recommendation for any welding condition or technique not controlled by TienTai Electrode Co., Ltd.