

XP ER 317L

STAINLESS STEEL

CLASSIFICATIONS

EN ISO 14343-A	AWS A5.9
W 18 15 3 L	ER317L

KEY FEATURES AND APPLICATIONS

- Solid chromium-nickel-molybdenum welding wire for welding of austenitic stainless alloys of 19% Cr 9% Ni 3% Mo types.
- ER317L offers strong resistance to general corrosion and pitting.
- This alloy has a low carbon content which makes it particularly recommended where there is a risk of intergranular corrosion.
- Not suitable for structural service above 400°C or cryogenic applications.
- Commonly used in industries like chemical, petrochemical, marine, papermaking, and food processing.

BASE MATERIALS

1.4429, 1.4434, 1.4435, 1.4436, 1.4438, 1.4439, 1.4453, 1.4583, X2CrNiMoN 17 13 5, X2CrNiMoN 17 13 3, X2CrNiMo 18 15 4, X10CrNiMoNb 18 12, X2CrNiMoN17-13-3, X2CrNiMoN18-12-4, X2CrNiMo18-14-3, X3CrNiMnMoN19-16
UNS S31600, S31653, S31703, S31726, S31753
AISI 316Cb, 316L, 316LN, 317L, 317LN, 317LMN

CHEMICAL COMPOSITION OF WIRE %

	C	Si	Mn	P	S	Cr	Ni	Mo	Cu
MIN	-	0.30	1.0	-	-	18.5	13.0	3.0	-
MAX	0.03	0.65	2.5	0.03	0.03	20.5	15.0	4.0	0.75

Single values are maximum values according to EN ISO 14343

MECHANICAL PROPERTIES OF ALL-WELD METAL - TYPICAL VALUES

Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)
≥300	≥480	≥25

Test data for mechanical properties are not guaranteed since actual as welded conditions depend on numerous variables

OPERATING DATA

Shielding Gases	Polarity
EN ISO 14175 - I1	DC-

PACKAGING AND AVAILABLE SIZES

Part Number	Diameter (mm)	Length (mm)	Weight (kg)	Packaging
XP30376	1.6	1000	5	PAP 20 Tube
XP30377	2.4	1000	5	PAP 20 Tube
XP30378	3.2	1000	5	PAP 20 Tube