

## XP ER 80S-D2 (A31)

CREEP RESISTANT



### CLASSIFICATIONS

EN ISO 636-A	AWS A5.28
W Z2Mo	ER80S-D2

### KEY FEATURES AND APPLICATIONS

- 0.5% Mo alloyed wire intended for welding similar composition steels.
- Typically used for high-strength, creep-resistant low-alloy steel welding applications.
- The presence of molybdenum helps resist hydrogen attack in chemical process applications.
- Ideal for service temperature up to 500°C max.
- Commonly used in the construction of steam boilers, pressure tanks, gas pipes, shipbuilding sector, petrochemical industry, heat exchangers, building of cranes, bridges.

### BASE MATERIALS

P235G1TH, P255G1TH, P310GH, 16Mo3, A255, A350, A612, A210, A333, A316, A369, A106

### CHEMICAL COMPOSITION OF WIRE %

	C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu	Al	Ti + Zr
MIN	0.06	0.50	1.70	-	-	-	-	0.40	-	-	-	-
MAX	0.14	0.80	2.10	0.025	0.025	0.15	0.15	0.60	0.03	0.35	0.02	0.15

### MECHANICAL PROPERTIES OF ALL-WELD METAL - TYPICAL VALUES

Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Impact ISO-V (J)	Test Temperature
550	670	24	70	-30°C

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
XP15316	1.6	1000	5	PAP 20 Tube
XP15318	2.4	1000	5	PAP 20 Tube
XP15320	3.2	1000	5	PAP 20 Tube