

## XP ER 2594S

## STAINLESS STEEL

### CLASSIFICATIONS

EN ISO 14343-A	AWS A5.9
G Z 25 9 4 N L W	ER2594

### KEY FEATURES AND APPLICATIONS

- Solid corrosion-resistant, Super Duplex wire for welding austenitic-ferritic stainless alloys of the 25% Cr, 7% Ni, 4% Mo, low C types.
- Offers similar chemical and mechanical properties to wrought super duplex alloys like 2507 and ZERON 100.
- This alloy is primarily used in applications that demand exceptional corrosion resistance.
- Ideal for service temperatures up to 250°C max.
- Typical used in the oil and gas industries, desalination, chemical processing, drug manufacturing, and paper production industries.

### BASE MATERIALS

1.4507, 1.4410, 1.4468, 1.4515, 1.4517, 1.4501, 1.4467, 1.4569, 1.4508  
 X2 CrNiMoCuN 25-6-3, X2 CrNiMoN 25-7-4, GX2 CrNiMoN 25-6-3, GX2 CrNiMoCuN 26-6-3, GX2 CrNiMoCuN 25-6-3-3, X2 CrNiMoCuWN 25-7-4, X2CrMnNiMoN26-5-4, X 2 CrNiMoN 26 7 4, GX2CrNiMoCuWN25-8-4  
 UNS S32520, S32550, S32750, S39274, S39277, S39553, S32760, J93380  
 Ferralium 255, SAF 2507, ZERON 100, UR 76 N, SM22Cr, SAF 2507, Alloy 2507, Alloy 2594

### CHEMICAL COMPOSITION OF WIRE %

	C	Si	Mn	P	S	Cr	Ni	Mo	N	Cu	W
MIN	-	-	-	-	-	24.0	6.0	2.5	0.20	0.5	0.5
MAX	0.03	1.0	1.0	0.035	0.020	27.0	9.5	4.0	0.30	1.5	1.0

Single values are maximum values

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

Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)
≥550	≥750	≥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 - M12, M13	DC+

### PACKAGING AND AVAILABLE SIZES

Part Number	Diameter (mm)	Spool	Weight (kg)	Pallet Qty
XP30288	1.0	BS300	15	72
XP30291	1.2	BS300	15	72

