Avesta 2507/P100 Cu/W	SAW Wire	
Classifications		high-alloyed
EN ISO 14343-A:	AWS A5.9:	
S 25 9 4 N L	ER2594	

Characteristics and field of use

Avesta 2507/P100Cu/W is intended for welding super duplex alloys such as 2507, ASTM S32760, S32550 and S31260. It can also be used for welding duplex type 2205 if extra high corrosion resistance is required, e.g. in root runs in tubes. The weldability of duplex and super duplex steels is excellent but the welding should be adapted to the base material, considering fluidity, joint design, heat input etc. Very good resistance to pitting and stress corrosion cracking in chloride containing environments. PREW>46. Meets the corrosion test requirements per ASTM G48 Methods A, B and E (40°C).

Base materials

For welding ste	els such as				
Outokumpu	EN	ASTM	BS	NF	SS
2507	1.4410	S32750	-	Z3 CDN 25-06 Az	2328

Typical analysis of the wire (Wt-%)

	С	Si	Mn	Cr	Ni	Мо	Ν
	0.02	0.35	0.4	25.0	9.5	4.0	0.25

Ferrite 50 FN; WRC-92

Available flux

805

Mechanical properties of all-weld metal

Heat Treatment	Yield strength 0.2%	Tensile strength	Elongation (L _o =5d _o)	Impact values in J CVN		
	MPa	MPa	%	+20°C:	-46°C:	
805	600	800	27	80	60	

Operating data

2.

imensions (mm)							
4	3.2						