Pipeliner® 80Ni1

Key Features

- Root pass capability up to API Grade X100 and hot, fill and cap pass up to X80 grade pipe
- Q2 Lot® Certificate showing actual deposit chemistry available online
- · ProTech® packaging system
- Excellent wire placement for narrow groove welding

Conformances

 AWS A5.28/A5.28M: 2005
 ER80S-G

 ABS:
 5YQ500SA H10

 DNV-GL:
 V Y50MS H5

 LR:
 5Y50S H5

Typical Applications

- · Root pass welding on up to X100 grade pipe
- Hot, fill and cap pass welding on up to X80 grade pipe
- · Pipeline and Offshore

Shielding Gas

75-95% Argon / Balance CO₂ 100% CO₃

Welding Positions



Diameter / Packaging

Diameter mm	Part Number	Packaging			
1.2	ED033122	4.5 kg Plastic Spool (Vacuum Sealed Foil Bag)			
1.2	ED033120	15 kg Plastic Spool (Vacuum Sealed Foil Bag)			

Mechanical Properties - As Required per AWS A5.28/A5.28M: 2005

	Yield Strength MPa	Tensile Strength MPa	Elongation %	Charpy V-Notch J @ -30°C	Charpy V-Notch J @ -60°C
Requirements - AWS ER80S-G	NS	550	NS	NS	NS
Typical Results - As Welded 80% M / 20% CO	510-600	620-670	25-27	92-142	68-100

Deposit Composition

	%C	%Mn	%Si	%Ni	%Ti	%S
Typical Results - As Welded	0.06-0.08	1.46-1.57	0.74-0.77	0.84-0.92	0.07	0.005-0.011
	%P	%Cu	%Cr	%Mo	%V	%AI
Typical Results - As Welded	0.005.0010	0 1 0 0 0 1	0.04	≤0.01	< 0.01	≤0.01

Typical Operation Procedures

Diameter	CTWD	Wire Feed Speed in/min	Voltage	Current	Deposition Rate
Polarity	mm		volts	amps	kg/hr
1.2 mm, DC+ 75-95% Ar/ Balance CO2	12-19	125-500	19-31	145-360	1.7-6.5