# Inweld 80S-B8

#### AWS A5.28 ER80S-B8

## Chemical Composition of Inweld 80S-B8

Fe	С	Cr	Ni	Mo	Mn	Si	Р	S	V	Other
Balance	0.10	8.0- 10.5	0.50			0.50	0.025	0.025		0.50

Single values are maximum unless otherwise specified.

## **Description and Applications**

80S-B8 contains 8.0 to 10.5 percent chromium and about 1.0 percent molybdenum. It is used for welding base metal of similar compositions, usually in the form of pipe or tubing. It is air-hardening material and, therefore, when welding with ER80S-B8, preheating and post-weld heat treatment is required. ER80S-B8 is similar to that previously classified as ER505 in AWS A5.9-81.

# **Typical Weld Metal Properties**

	AWS Spec
Tensile Strength:	80,000 psi
Yield Strength:	68,000 psi
Elongation:	17%

## **Recommended Parameters**

GTAW		
Wire Diameter 0.035" 0.045" 1/16"	<u>Voltage</u> 7-13 10-16 12-18	Amperage 50-120 120-200 150-220
GMAW		
Wire Diameter 0.035" 0.045" 1/16"	Voltage 14-20 16-20	<u>Amperage</u> 90-160 120-200 

#### **INWELDCORPORATION.COM**

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