DESIGNED TO WELD P 91 GRADE STEEL

DEFINITION: P 91 STEEL IS FERRITIC - MARTENSITIC (9% CHROMIUM, 1%) MOLYBDENUM STEEL MICRO-ALLOYED WITH VANADIUM & NIOBIUM.

OUTSTANDING PROPERTIES

- Improved creep strength
- Toughness, Fatigue Resistance
- Oxidation Resistance
- Corrosion Resistance



FEATURES & APPLICATIONS

MF 109 Is designed to Weld Modified Steels T 91, P 91 Grades to provided improved creep strength, toughness, fatigue oxidation & corrosion resistance at elevated temperatures, commonly used in power plants, oil refineries & coal liquefaction plants.

MF 109 Exhibits excellent elevated - temperature strength & creep behavior up to 580°C - 600°C.

MECHANICAL PROPERTIES:

MF 109 Design to Weld modified steels T 91, P 91 Grade. Provides improved creep strength, Toughness & Fatigue, Oxidation & Corrosion Resistance at elevated temperatures.

Undiluted Weld Metal

Tensile Strength Yield Strength Elongation Stress - Relieved 2 hrs. @ 760°C (1400°F)

Maximum Value Up to:

103,000 PSI 86,000 PSI 22.5%



WELDING CURRENT & INSTRUCTIONS

Recommended Current :DC (+)

Diameter (mm)	3/32 (2.5)	1/8 (3.25)	5/32(4.0)	3/16(5.0)
Minimum Amperage	70	80	100	140
Maximum Amperage	110	140	180	240

Welding Techniques:

Remove all surface contaminants. Maintain a short arc gap and use stringer bead technique.



