

PRODUCT OVERVIEW

PMET 860 is a nickel based superalloy alloyed primarily with chromium and molybdenum. This alloy is coveted primarily for its excellent corrosion resistance especially in seawater and organic acids. PMET 860 also exhibits exceptional resistance to oxidation and stress corrosion cracking while maintaining excellent yield strength. These properties can be maintained from room temperature up to 1800 F. PMET 860 can also be used to join nickel alloys to dissimilar metals such as carbon and stainless steels.

TYPICAL DEPOSIT CHARACTERISTICS:

- ⇒ Density: 0.305 lb/in³
- ⇒ Melting Range: 2350-2460 F
- ⇒ Oxidation Resistance: Excellent
- ⇒ Corrosion Resistance: Excellent

APPLICATION

- ⇒ Marine Components and Systems
- ⇒ Ducting and Exhaust Systems
- ⇒ Acid Processing
- ⇒ Joining Dissimilar Metals

SPECIFICATION

AMS 5837

NOMINAL CHEMICAL COMPOSITION (wt%)

Ni	Cr	Mo	Fe	Nb	Co	Si	Mn
BAL	22.0	9.0	5.0	4.0	1.0	1.0	1.0

MECHANICAL PROPERTIES:

Tensile Strength		Yield Strength		Elongation
Ksi	MPa	Ksi	MPa	%
103	710	51	350	30

STANDARD SIZES & PACKAGING:

Diameter

- 0.025" (0.6 mm)
- 0.030" (0.76 mm)
- 0.035" (0.9 mm)
- 0.045" (1.2 mm)
- 0.062" (1.6 mm)
- 0.093" (2.4 mm)