

PRODUCT OVERVIEW

PMET 875 is a nickel based superalloy alloyed primarily with chromium, iron, and molybdenum. PMET 875 exhibits excellent strength and oxidation resistance, even maintaining good properties up to 2000F. This alloy also has great resistance to carburizing environments and stress corrosion cracking.

TYPICAL DEPOSIT CHARACTERISTICS:

- ⇒ Density: 0.297 lb/in³
- ⇒ Melting Range: 2300-2470 F
- ⇒ Oxidation Resistance: Excellent
- ⇒ Corrosion Resistance: Good

APPLICATION

- ⇒ Exhaust Components
- ⇒ Industrial Furnaces
- ⇒ Chemical Processing

SPECIFICATION

AMS 5798

NOMINAL CHEMICAL COMPOSITION (wt%)

Ni	Cr	Fe	Mo	Co	Si	Mn	W	C
BAL	22.0	19.0	9.0	2.0	1.0	1.0	1.0	<1.0

MECHANICAL PROPERTIES:

Tensile Strength		Yield Strength		Elongation
Ksi	MPa	Ksi	MPa	%
111	765	55	379	44

STANDARD SIZES:

Diameter

- 0.031" (0.8 mm)
- 0.035" (0.9 mm)
- 0.045" (1.2 mm)
- 0.062" (1.6 mm)
- 0.093" (2.4 mm)