

MOLYBDENUM METAL PAMS (PREMIUM ALLOYING MELT STOCK)

DESCRIPTION



PAMS Product Offering. The size, shape, and combination may vary.

Climax's Molybdenum metal PAMS is ideally suited for the manufacturing of specialty alloys where consistency and control of elemental impurities are critical. The exceptionally low oxygen and carbon content of PAMS meets the most stringent requirements for vacuum melting operations. In addition, high process yield can be assured with the robust physical integrity of the melt stock and limited amount of fine particles. PAMS is supplied in various forms that allow for ease of handling and available in Vacuum Melt and Air Melt chemical purity grades.

CHEMICAL PROPERTIES

| | Vacuum Melt Grade | Air Melt Grade |
|---------------------------------|--------------------------|-----------------------|
| Purity: Molybdenum (Mo)* | 99.5% min | 99.5% min |
| Element | Maximum (ppm) | Maximum (ppm) |
| Oxygen (O) | 500 | 1500 |
| Nitrogen (N) | 100 | 500 |
| Carbon (C) | 100 | 300 |
| Tungsten (W) | 250 | 250 |
| Iron (Fe) | 200 | 200 |
| Nickel (Ni) | 200 | 200 |
| Chrome (Cr) | 200 | 200 |
| Silicon (Si) | 200 | 200 |

*Purity determined by subtraction, excluding gases.

PHYSICAL PROPERTIES

| PAMS | Typical Size | Specification Size | Typical Mass |
|-------------|------------------------|---------------------------|---------------------|
| Pellets | 2" L x 2.5" W x 0.3" H | ≤ 6" L x 3" W x 0.4" H | 70 g |
| Corrugates | 3" L x 2.5" W x 0.3" H | ≤ 6" L x 3" W x 0.4" H | 150 g |
| Castings | 1.75" Dia x 0.75" H | ≤ 2" Dia x 1" H | 120 g |

Melt stock is sintered to provide mechanical integrity.

STANDARD PACKAGING

| | |
|----------|------------|
| < 20 kg | steel pail |
| > 100 kg | steel drum |



MSDS REQUIREMENTS

A copy of the material safety data sheet (MSDS) is available upon request.

QUALITY ASSURANCE

We are committed to the production of the highest quality Molybdenum products, to the continual improvement of our manufacturing processes, and long-term partnerships with our customers. To accomplish this, all of our employees and suppliers work as a team, assuring strict conformance to this specification as well as customer requirements. A quality assurance system has been implemented. All conversion facilities are certified to ISO 9001:2008.

PDS PAMS REV00