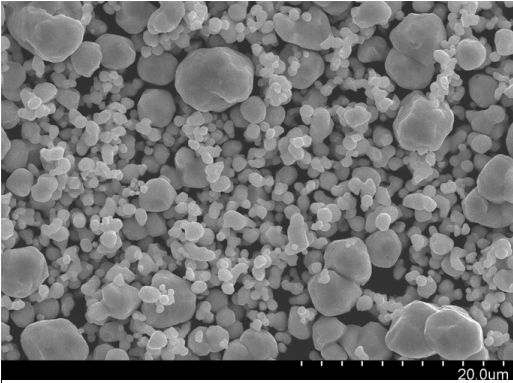


**MOLYBDENUM ENGINEERED POWDER**

**DESCRIPTION**



SEM Image – Molybdenum Engineered Powder

Climax’s engineered molybdenum powders offer a range of purity and packing density to satisfy a broad scope of applications.

Climax’s EM powders utilize a proprietary manufacturing process to create a fine mesh powder with low oxygen content.

Standard FM powders have been specifically designed to offer a combination of high purity and tap density which benefits many powder consolidation operations. Climax’s FM powders are amenable to pressing by a variety of methods including axial and isostatic pressing, and can be sintered or hot pressed to densities in excess of 95% of theoretical density.

**CHEMICAL PROPERTIES**

	<b>EM</b>	<b>FM</b>
<b>Purity:</b>		
Molybdenum (Mo)*	99.9% min	99.95% min
<b>Element</b>	<b>Maximum (ppm)</b>	<b>Maximum (ppm)</b>
Oxygen (O)	1400	2000
Nitrogen (N)	100	100
Carbon (C)	50	50
Tungsten (W)	250	250
Iron (Fe)	100	50
Nickel (Ni)	100	50
Chrome (Cr)	100	50
Silicon (Si)	50	50

\*Purity determined by subtraction, excluding gases

**PHYSICAL PROPERTIES**

	<b>EM</b>	<b>FM</b>
<b>Bulk Density:</b>	0.7-1.5 g/cc	1.8-3.1 g/cc
<b>Tap Density:</b>	n/a	> 3.5 g/cc
<b>Particle Size Distribution:</b>	- 100 mesh	- 325 mesh

**STANDARD PACKAGING**

< 5 kg	Plastic (PE) bottle	All EM and FM molybdenum engineered powders are packed in argon backfilled, sealed mylar bags.
~ 20kg	steel pail	
> 100kg	steel drum	

**MSDS REQUIREMENTS**

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

PDS EMFM REV02