

**MN 100 – 101 – 103 – 104 - 110
Manganese Metal Powder**

MN 100 – 101 – 103 – 104 - 110	
Formula	Mn
Purity	99.95 – 99.5 – 99.9
Particle size	2 um - <10 um -<325 mesh – Plasma Spray Grade - <50 mesh

Chemistry					
Elements	MN 100	MN 101	MN 103	MN 104	MN 110
Mn	99.95	99.5	99.9	99.9	99.9
Fe	0.001	-	-	0.01 max	0.01 max
Al	0.004	-	-	-	-
Si	0.002	-	-	0.01 max	0.01 max

Particle Size					
	MN 100	MN 101	MN 103	MN 104	MN 110
Size	2 microns	-10 micron	-325 mesh	-100+325 mesh	-50 mesh
APS	1.5 micron	9.90 microns	99% min -325	80% min	100%-50 mesh
Density	-	2.29 g/cc	2.56 g/cc	-	-



Manganese powder is used in the production of sputtering targets and in Chemical Vapor Deposition (CVD) and Physical Vapor Deposition (PVD) processes including Thermal and Electron Beam (E-Beam) Evaporation, Low Temperature Organic Evaporation, Atomic Layer Deposition (ALD), Metallic-Organic and Chemical Vapor Deposition (MOCVD). Powders are also useful in any application where high surface areas are required such as water treatment, fuel cell and solar applications. Manganese powder is used in pyrotechnic industry for delay compositions.