

# 3D Metal – Maraging Steel Material Information

MS1(250) or (Maraging Steel) is used in DLMS (Direct Metal Laser Sintering) is a steel powder that has great strength combined with hardness.

MS1 can easily be machined after the 3D printing process.

Right off the metal printer MS1 is typically around a 33-37HRC (Rockwell hardness). It is machinable after the printing/building process and can be easily post-hardened up to 57-58 HRC.

Chemical Composition	
Element	Wt (%) Max/Min
Iron, Fe	Bal
Nickel, Ni	17 / 19
Cobalt, Co	8.5 / 9.5
Molybdenum, Mo	4.5 / 5.2
Titanium, Ti	0.6 / 0.8
Aluminum, Al	0.05 / 0.15
Carbon, C	0.0 / 0.03
Chromium, Cr	0.0 / 0.5
Cobalt, Co	0.0 / 0.5
Other	0.0 / 0.22

