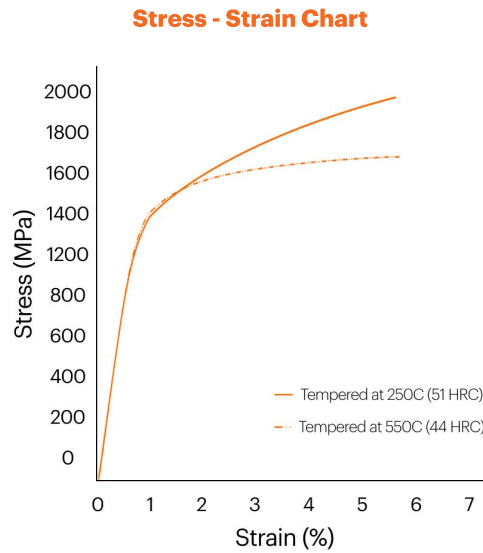


420 Stainless Steel

Mantle's 420 Stainless Steel is a production tool steel best known for its high hardness and corrosion resistance. Mantle's 420 Stainless Steel is optimized for the Mantle metal 3D printing process to deliver high-quality, precise tools.



Mechanical Property	Standard	Mantle 420 Heat Treated (double tempered at 250C)	Mantle 420 Heat Treated (double tempered at 550C)	Traditional 420 Heat Treated (double tempered at 200C)
Ultimate Tensile (MPa)	ASTM E8	1,960	1,658	1,720
Tensile Yield (MPa)	ASTM E8	1,413	1,379	1,480
Elongation (%)	ASTM E8	5.1	5.3	8
Hardness (HRC)	ASTM E18	51	44	52
Density (g/cm ³)	ASTM B311-17	7.44	7.44	-
Relative Density (%)	ASTM B311	96	96	-