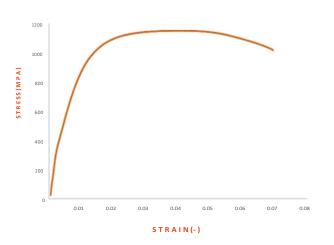


17-4 PH stainlesssteel

Characterized by its combination of strength, hardness, and corrosion resistance, 17-4 PH is a stainless steel ideal for a variety of applications including tooling, molds, and production parts. In its as-sintered state, 17-4 PH material properties consistently meet industry standards.1

Composition % 0.07 (max) Cr 15.5 - 17.5 Νi 3 - 5 Cu 3 - 5 Mn 1.0 (max)

0.15 - 0.45



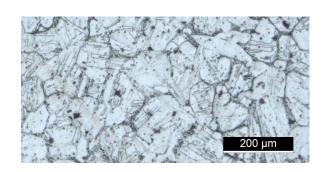
Other standard designations

UNS S17400 EN 1.4542 ISO 4542-174-00-I

Mechanical properties ²				
		Studio System™	ASTM B883	Wrought ³
	standard	as-sintered	as-sintered (min)	for reference
Yield strength (MPa)	ASTM E8M	660	650	980
Ultimate tensile strength (MPa)	ASTM E8M	1042	795	1060
Elongation at break	ASTM E8M	8.5%	4%	8%
Young's modulus (GPa)	ASTM E8M	195	190 (typ)	200
Hardness (HRC)	ASTM E18	37	-	35
Density (relative)	ASTM B311	98%	-	100%

Nb + Ta

 $\label{lem:end-use} End-use material performance is impacted (+/-) by certain factors including but not \ limited to particular the property of the property$ geometry and design, application and evaluation conditions, etc.



¹per ASTM B883 minimum values. ²TensilepropertiestestedatanAZLAISO17025-certified,third-partylaboratory. ³Grupo Lucefin. (2018). *Precipitation Hardening Stainless Steel*. http://www.lucefin.com/wp-content/files_mt/1.4542pha63062.pdf