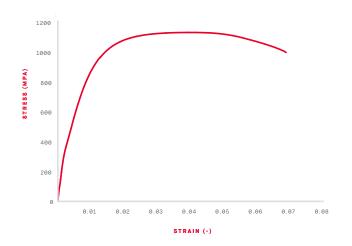


## 17-4 PH stainless steel

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 %			
С	0.07 (max)		
Cr	15.5 - 17.5		
Ni	3 - 5		
Cu	3 - 5		
Mn	1.0 (max)		
Nb + Ta	0.15 - 0.45		

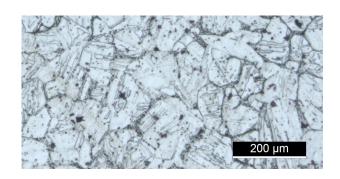


## Other standard designations

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

Mechanical properties <sup>2</sup>					
		Studio System™	ASTM B883	Wrought <sup>3</sup>	
	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%	

End-use material performance is impacted (+/-) by certain factors including but not limited to part geometry and design, application and evaluation conditions, etc.



per ASTM B883 minimum values.

Tensile properties tested at an A2LA ISO 17025-certified, third-party laboratory. Grupo Lucefin. (2018). *Precipitation Hardening Stainless Steel*. http://www.lucefin.com/wp-content/files\_mf/1.4542pha63062.pdf