



17-4PHN

composition
after sintering

Ni%	Cr%	C%	Cu%	Nb+Ta%	Mn%	Si%	N%	Fe%
3.0-5.0	15.5-17.5	≤0.15	3.0-5.0	0.15-0.45	≤1.0	≤1.0	≥0.3	balance

as sintered

heat-treated

Density\g/cm³

≥7.6

Yield Strength R_{p0.2}\Mpa

≥380 (420)

≥350 (400)

Characteristi

Ultimate Tensile Strength\Mpa

≥690 (800)

≥600 (700)

c Properties

Elongation\%

≥20 (40)

≥13 (20)

(Typical values are
shown in bracket)

Hardness\HV0.3

220-280

200-260

Relative permeability

≤1.01

corrosion resistance

48h neutral salt spray test
qualified