



Injection Moulded Material Properties and Application Data

Material:	Precipitation-Hardening Stainless Steel Ferritic, magnetic	
Grade:	AISI 17-4 PH, DIN X5CrNiCuNb174, W.Nr. 1.4542	
Nominal Composition, %:	Cr	16.2
	Ni	4.5
	Cu	3.6
	Nb+Ta	0.20
	Si	0.5 max.
	Mn	0.5 max.
	C	0.03 max.
	Fe	Balance

Typical properties	as sintered	precipitation-hardened	
		H-900	H-1000
Density (g/cm ³)	7.65	7.65	7.65
Hardness, Rc	25	38	33
Elastic Modulus (GPa)	193		
Elongation (%)	6	7.5	8
Tensile Strength (MPa, N/mm ²)	970	1170	1030
Yield Strength (MPa, N/mm ²)	890	1100	980
As sintered Surface Finish	R _a < 1.6	R _a < 1.6	R _a < 1.6

Uses, remarks:

Fasteners and structural components requiring high strength and corrosion resistance. Automotive, aircraft, and marine applications as well as parts for business machines, valves, household machines, medical and dental applications etc.