



Grade	Code	PH Type	Precipitation Hardening Stainless Steel
1.4534	X3CrNiMoAl13-8-2	13-8 PH	

Steel Properties

13-8 PH is acid resistant special steel with martensitic structure, subjected to precipitation hardening, showing excellent mechanical properties - high hardness, strength and relatively high corrosion resistance, dynamic loads and cracking resistive.

Chemical Composition (13-8 PH)

C %	P %	Si %	Mn %	S %	Cr %	Mo %	Ni %	AL %	Cu %
0,05 max.	0,01 max.	0,01 max.	0,10 max.	0,008 max.	12,25 – 13,25	2,00 – 2,50	7,50 – 8,50	0,90 – 1,35	-

Mechanical Properties

Condition	Rp0.2, Mpa	Rm, Mpa	Elongation [%]	Hardness [HRC]
H950	1413	1517	10	45

Suitable For

13-8 PH, applications include aircraft structural parts, landing gear components, shafts, valves, fittings and fasteners. Also used for components in the petrochemical industry

Remarks

Type 13-8 PH is delivered most often after heat improvement – in H950, H1000, H1025, H1050, H1100 and H1150 conditions.

Specification

13-8 PH, 1.4534, X3CrNiMoAl13-8-2