

Brand name | PH 13-8 Mo®

Standards	Material No.	EN Designation	ASTM	UNS
	1.4534	X3CrNiMoAl13-8-2	XM-13	S13800

Description | 1.4534 / PH 13-8 Mo is a precipitation hardening stainless steel.

Special properties | Precipitation hardenable, stainless steel, stress corrosion resistance, high strength up to 315°C.

Chemical Composition	C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
	≤ 0.05	0.10	0.10	0.01	0.008
	Cr %	Mo %	Ni %	N %	Ti ≤ %
	12.25-13.25	2.00-2.50	7.50-8.50	≤ 0.010	0.10
	Al %				
	0.80-1.35				

Mechanical Properties 20°C	Hardness HB 30 ≤ HB	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
	380	1140	1210	12	200

Physical Properties 20°C	Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
	7.8	500	15	0.7

Application | Aircraft industry, high strength corrosion resistant parts

Available forms for 1.4534 / PH 13-8 Mo

