

Brand name | PH 15-7 Mo ®

Standards	Material No.	EN Designation	AISI/SAE	UNS
	1.4574	X7CrNiMoAl15-7	632	S15700

Description | 1.4574 / Alloy PH 15-7 Mo® is an austenitic chromium-nickel stainless steel with molybdenum and aluminum addition.

Special properties | Due to the existing molybdenum content of the stainless steel 1.4532 against the stainless steel 1.4568, the protection of the stainless steel increased before reducing acids and chloride-containing plas which occur in river water among others. The resistance to pitting and crevice corrosion is dependent material-side on their content of chromium and molybdenum. Due to the content of molybdenum and thereby resulting nickel - molybdenum alloy increases with the 1.4532 resistance to corrosion (eg in the stress corrosion crackin

Chemical Composition	C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
	≤ 0.09	1.00	1.00	0.04	0.03
	Cr %	Mo %	Ni %	Al %	
	14.0-16.0	2.00-3.00	6.50-7.75	0.75-1.50	

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
	335	1000	900-1100	15	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

Suitable welding filler materials | W P 15-7 Mo / W 17-7 PH

Application | Aircraft industry

Available forms for 1.4574 / AISI 632	Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings
					