

Brand name | INCONEL® 686

Trade name | Alloy 686

Material No.	EN Designation	UNS	Alloy
2.4606	NiCr21Mo16W	N06686	686

Description | Alloy 686 / 2.4606 is a nickel-chromium-molybdenum-tungsten alloy.

Special properties | Outstanding corrosion resistance in reducing environments. Good resistance to oxidizing media. Molybdenum and Tungsten increase the resistance to localized corrosion such as pitting.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.010	0.08	0.75	0.025	0.015
Cr %	Mo %	Ni %	V %	Ti ≤ %
19.0-23.0	15.0-17.0	Rest	≤ 0.20	0.02-0.25
Al %	Co %	Fe %	W %	
≤ 0.50	≤ 1.00	≤ 2.00	3.00-4.40	

0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %
385	≥ 760	65

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8.73	370	11.9	1.24

Suitable welding filler materials | 2.4606

Application | Chemical processing, pulp and paper industry, treatment of wastes

Available forms for 2.4606 / ALLOY 686

