

Brand name | INCONEL® Alloy 718, Nicrofer® 5219Nb

Trade name | Alloy 718

Material No.	EN Designation	UNS	Alloy
2.4668	NiCr19NbMo	N07718	718

Description | Alloy 718 / 2.4668 is a nickel-chromium-iron alloy with niobium and molybdenum and low contained aluminum and titanium.

Special properties | Excellent mechanical properties in lower temperatures. Excellent corrosion resistance at high and low temperatures

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.02-0.08	0.35	0.35	0.015	0.015
Cr %	Mo %	Ni %	Ti ≤ %	Cu %
17.0-21.0	2.80-3.30	50.0-55.0	0.60-1.20	≤ 0.30
Al %	Co %	B %	Fe %	Nb %
0.30-0.70	≤ 1.00	0.002-0.006	Rest	4.70-5.50

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
1030	≥ 1230	12	205

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8.2	440	13	1.23

Suitable welding filler materials | 2.4667

Application | Off-shore and marine engineering

Available forms for 2.4668 / ALLOY 718

Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
						