

Brand name | INCONEL® Alloy 617, Nicrofer® 5520 Co

Trade name | Alloy 617

Material No.	EN Designation	UNS	Alloy
2.4663	NiCr23Co12Mo	N06617	617

Description | Alloy 617 / 2.4663 is a nickel-chromium-cobalt-molybdenum alloy.

Special properties | Excellent mechanical properties up to 1100°C. Excellent resistance to oxidation up to 1100°C.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.05-0.10	0.20	0.20	0.01	0.01
Cr %	Mo %	Ni %	Ti ≤ %	Cu %
20.0-23.0	8.50-10.0	Rest	0.20-0.60	≤ 0.50
Al %	Co %	B %	Fe %	
0.70-1.40	11.0-14.0	≤ 0.006	≤ 2.00	

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
300	≥ 690	35	212

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8.4	420	13.4	1.22

Suitable welding filler materials | 2.4627; 2.4628

Application | Components for gas turbines, petrochemical industry

Available forms for 2.4663 / ALLOY 617	Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
							