

Brand name | Microfer® 5120 CoTi, NIMONIC® C-263

Trade name | Alloy C-263

Material No.	EN Designation	UNS	Alloy
2.4650	NiCo20Cr20MoT	N07263	C-263

Description | Alloy C-263 / 2.4650 is a nickel-chromium-cobalt-molybdenum alloy.

Special properties | Outstanding creep strength up to 850°C. Excellent resistance to oxidation up to 1000°C.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.04-0.08	0.40	0.60	0.02	0.007
Cr %	Mo %	Ni %	Ti ≤ %	Cu %
19.0-21.0	5.60-6.10	Rest	1.90-2.40	≤ 0.20
Al %	Co %	B %		
0.30-0.60	19.0-21.0	≤ 0.005		

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
570	≥ 970	30	222

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8.4	426	11.7	1.15

Suitable welding filler materials | 2.4650

Application | Parts for gas turbines

Available forms for 2.4650 / ALLOY C-263	Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
							