

Brand name | Microfer® 4823hMo, INCONEL® G-3

Trade name | Alloy G-3

Material No.	EN Designation	UNS	Alloy
2.4619	NiCr22Mo7Cu	N06985	G-3

Description | Alloy G-3 / 2.4619 is a stabilized austenitic nickel-chromium-iron alloy with a high molybdenum content and with an addition of cobalt and copper.

Special properties | Very good resistance to a wide range of corrosive media under both oxidizing and reducing conditions. Excellent resistance to crevice and pitting corrosion and to stress corrosion cracking.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.015	1.00	1.00	0.025	0.015
Cr %	Mo %	Ni %	Cu %	Co %
21.0-23.5	6.00-8.00	Rest	1.50-2.50	≤ 5.00
Fe %	W %	Nb %		
18.0-21.0	≤ 1.50	≤ 0.50		

0.2% Yield strength $R_p$ ≥ N/mm <sup>2</sup>	Tensile strength $R_m$ N/mm <sup>2</sup>	Elongation $A_5$ ≥ %	Modulus of elasticity kN/mm <sup>2</sup>
240	≥ 620	45	211

Density g/cm <sup>3</sup>	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm <sup>2</sup> /m
8.3	441	11.1	1.15

Suitable welding filler materials | 2.4621

Application | Chemical process industry, acetic acid production

Sheets/Plates	Bars	Tubes/Pipes
		