

Brand name | Nicrofer 5923 hMo

Trade name | Alloy 59

Material No.	EN Designation	UNS	Alloy
2.4605	NiCr23Mo16Al	N06059	59

Description | Alloy 59 / 2.4605 is nickel-chromium-molybdenum alloy with extra low-carbon and silicon content.

Special properties | Outstanding 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. Excellent resistance to mineral acids.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.010	0.10	0.50	0.025	0.015
Cr %	Mo %	Ni %	Cu %	Al %
22.0-24.0	15.0-16.5	Rest	≤ 0.50	0.10-0.40
Co %	Fe %			
≤ 0.30	≤ 1.50			

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
340	≥ 690	40	210

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8.6	414	10.4	1.26

Suitable welding filler materials | 2.4609

Application | Waste incineration, acetic acid production, combustion gas desulfurization

Available forms for 2.4605 / ALLOY 59

