

Brand name | Microfer® 5621hMoW, INCONEL® Alloy 22

Trade name | Alloy 22

Material No.	EN Designation	UNS	Alloy
2.4602	NiCr21Mo14W	N06022	22

Description | Alloy 22 / Alloy 22 is a nickel-chromium-molybdenum alloy containing tungsten with extremely low carbon and silicon contents.

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.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.010	0.08	0.50	0.025	0.015
Cr %	Mo %	Ni %	V %	Co %
20.0-22.5	12.5-14.5	Rest	≤ 0.35	≤ 2.50
Fe %	W %			
2.00-6.00	2.50-3.50			

Hardness HB 30 ≤ HB	0.2% Yield strength R <sub>p</sub> ≥ N/mm <sup>2</sup>	Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Elongation A <sub>5</sub> ≥ %	Modulus of elasticity kN/mm <sup>2</sup>
240	310	690-950	45	205

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
8.7	406	10.1	1.14

Suitable welding filler materials | 2.4638; 2.4635

Application | Waste incineration, chemical industry

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