

Brand name | Nicrofer 4722 Co®, Inconel HX®

Trade name | Alloy HX

Material No.	EN Designation	UNS	Alloy
2.4665	NiCr19Fe19Nb5Mo3	N06002	HX

Description | Alloy HX / 2,4665 is a nickel-chromium-iron-molybdenum alloy.

Special properties | Excellent combination of oxidation resistance, fabricability and high-temperatures strength.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.05-0.15	1.00	1.00	0.02	0.015
Cr %	Mo %	Ni %	Cu %	Al %
20.5-23.0	8.00-10.0	Rest	≤ 0.50	≤ 0.50
Co %	B %	Fe %	W %	
0.50-2.50	≤ 0.010	17.0-20.0	0.20-1.00	

Hardness HB 30 ≤ HB	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
180	270	≥ 690	30	205

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8.22	485	9.1	1.15

Suitable welding filler materials | 2.4665

Application | Components for gas turbines and industrial furnaces

Available forms for 2.4665 / ALLOY HX	Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
							