



2.4665

Description - Alloy HX / 2.4665 is a nickel-chromium-iron-molybdenum alloy.

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

Suitable welding filler materials - 2.4665.

Application - Components for gas turbines and industrial furnaces.

Chemical Composition in %

C	Si	Mn	Cr	Ni	W	Mo	Co	Al	Fe
0.05-0.15	≤1.00	≤1.00	20.5-23.0	Rest	0.2-1.0	8.0-10.0	0.5-2.5	≤0.5	17.0-20.0

Standards

Material No.	2.4665
EN Designation	NiCr19Fe19Nb5Mo3
UNS	N06002
Alloy	HX

Mechanical Properties 20 °C

Hardness HB 30	≤180
0.2% Yield strength Rp, N/mm ²	≥270
Tensile strength Rm, N/mm ²	≥690
Elongation A5, %	≥30
Modulus of elasticity, kN/mm ²	205

Physical Properties 20 °C

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