

Brand name | Nicrofer® 3620 Nb, Carpenter® 20, Incoloy® alloy 20

Trade name | Alloy 20

Material No.	EN Designation	UNS	Alloy
2.4660	NiCr20CuMo	N08020	20

Description | Alloy 20 / 2.4660 is a low-carbon, niobium stabilized austenitic nickel-iron-chromium alloy with copper and molybdenum.

Special properties | Excellent resistance to sulphuric and phosphoric acids. Good resistance to intergranular corrosion. Good resistance to pitting and crevice corrosion. Very good resistance to chloride-ion induced stress-corrosion cracking.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.07	1.00	2.00	0.025	0.015
Cr %	Mo %	Ni %	Cu %	Co %
19.0-21.0	2.00-3.00	32.0-38.0	3.00-4.00	≤ 1.50
Fe %	Nb %			
Rest	8 x C			

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
240	≥ 550	30	202

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8.1	456	11.5	1.07

Suitable welding filler materials | 2.4621; 2.4609

Application | Phosphor and sulphur acids plants

Available forms for 2.4660 / ALLOY 20	Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
							