

Brand name | Inconel® 625, Nicrofer 6020

Trade name | Alloy 625

Material No.	EN Designation	UNS	Alloy
2.4856	NiCr22Mo9Nb	N06625	625

Description | Alloy 625 / 2.4856 is a low-carbon nickel-chromium-molybdenum-niobium alloy.

Special properties | Outstanding resistance to pitting, crevice corrosion, impingement corrosion and intergranular attack. Good resistance to mineral acids, such as nitric, phosphoric, sulphuric and hydrochloric acids. Good resistance to alkalis and organic acids.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
0.03-0.10	0.50	0.50	0.02	0.015
Cr %	Mo %	Ni %	Ti ≤ %	Cu %
20.0-23.0	8.00-10.0	≥ 58.0	0.40	≤ 0.50
Al %	Co %	Fe %	Nb %	
≤ 0.40	≤ 1.00	≤ 5.00	3.15-4.15	

Hardness HB 30 ≤ HB	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Resistant on air up to °C
240	415	820-1050	30	1000
Modulus of elasticity kN/mm ²				
209				

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8.5	410	10	1.29

Suitable welding filler materials | 2.4831; 2.4621

Application | Chemical industry, offshore and environmental technology

Available forms for 2.4856 / ALLOY 625	Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
							