

Brand name | SANICRO 28®

Trade name | Alloy 28

Material No.	EN Designation	UNS	Alloy
1.4563	X1NiCrMoCuN31-27-4	N08028	28

Description | 1.4563 / Alloy 28 is an austenitic special steel with molybdenum and copper contents.

Special properties | Good resistance against sulphuric and phosphoric acids. High resistance to localized corrosion such as pitting and crevice corrosion, as well as to stress-corrosion.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.02	0.70	2.00	0.03	0.01
Cr %	Mo %	Ni %	N %	Cu %
26.0-28.0	3.00-4.00	30.0-32.0	≤ 0.11	0.70-1.50

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>
230	220	500-750	35/30	195

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	450	12	1

Suitable welding filler materials | 1.4562; 2.4621

Application | Heat exchangers, pipes in oil and gas production

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