

Brand name | INCOLOY® Alloy DS

Trade name | Alloy DS

Material No.	EN Designation	UNS	Alloy
1.4862	X8NiCrSi38-18	N08330	DS

Description | Alloy DS / 1.4862 is a heat resistant nickel-iron-chromium alloy.

Special properties | Good oxidation and scale resistance. Good mechanical properties with high strength at elevated temperatures.

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.10	1.90-2.50	0.80-1.50	0.03	0.03
Cr %	Ni %	Cu %		
17.0-19.0	34.5-41.0	≤ 0.50		

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
223	230	550-750	30	1100
Modulus of elasticity kN/mm ²				
194				

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8	550	12.5	1

Suitable welding filler materials | 1.4863; 2.4648

Application | Components for high-temperatures furnaces

Available forms for 1.4862 / ALLOY DS	Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
							