2.4975 ALLOY 901

Trade name

Alloy 901

Standards

Material No.	EN Designation	UNS	Alloy
2.4975	NiFeCr12Mo	N09901	901

Description

Alloy 901 / 2.4975 is a nickel-chromium-molybdenum alloy with titanium content.

Special properties

High-strength and corrosion resistance in the temperature range 540° to 750°C.

Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.10	0.60	2.00	0.02	0.01
Cr %	**Mo %**	**Ni %**	**Ti ≤ %**	**Al %**
11.0-14.0	5.00-7.00	40.0-45.0	2.35-3.10	≤ 0.35
Co %	**Fe %**			
≤ 1.00	Rest			

Mechanical Properties 20°C

0.2% Yield strength R_p ≥ N/mm²	Tensile strength R_m N/mm²	Elongation A_5 ≥ %	Resistant on air up to °C
835	≥ 1180	15	850

Physical Properties 20°C

Density g/cm³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm²/m
8.2	420	13	1.13

Application

Parts for gas turbines and transmissions

Available forms for 2.4975 / ALLOY 901

Bars	Forged / cast parts	Finished part (drawing)
		

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