

## Chemical Composition

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

## 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.

## Steel Grade

Alloy	UNS	Material No.	EN Designation
625	N06625	2.4856	NiCr22Mo9Nb

## Mechanical Properties 20°C

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>	Hardness HB 30 ≤ HB
415	820-1050	30	209	240

Resistant on air up to °C
1000

## Physical Properties 20°C

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
8.5	410	10	1.29

## Suitable Welding Filler Materials

2.4831/2.4621

## Application

Chemical industry, offshore and environmental technology

## Available Forms for ALLOY625

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