

## Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.05	0.70	1.50	0.04	0.015
Cr %	Mo %	Ni %	N ≤%	
12.0-14.0	0.30-0.70	3.50-4.50	0.020	

## Description

1.4313 / AISI 415 is a chromium-nickel stainless steel with additional molybdenum.

## Special Properties

Good toughness properties in a temperature range of -60 to +300°C. Equal corrosion resistance to 1.4057 due to the molybdenum content.

## Steel Grade

AISI	UNS	Material No.	EN Designation
415	S41500	1.4313	X3CrNiMo13-4

## Mechanical Properties 20 °C

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>
320	520	700-800	15/12	200

## 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
7.7	430	25	0.6

## Suitable Welding Filler Materials

1.4351/1.4313

## Application

Pumps, accessories, rotor wheels

## Available Forms for AISI415

Sheets/Coils	Bars
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