

## Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.03	1.00	1.00	0.04	0.015
Cr %	Ti %	Nb %		
17.5-18.5	0.10-0.60	3xC+0.3-1.00		

## Description

1.4509 / AISI 441 is a ferritic chromium stainless steel.

## Special Properties

Good resistance to stress corrosion cracking.

## Steel Grade

AISI	UNS	Material No.	EN Designation
441	S43940	1.4509	X2CrTiNb18

## 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>
200	200	420-620	18	220

## 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	460	25	0.6

## Suitable Welding Filler Materials

1.4316/1.4502

## Application

Exhauster, catalyser

## Available Forms for AISI441

Sheets/Coils	Bars	Tubes / Pipes	Wires	Fittings
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