

## Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.030	1.00	2.00	0.035	0.015
Cr %	Mo %	Ni %	N ≤%	
24.0-26.0	3.00-4.50	6.00-8.00	0.24-0.35	

## Description

1.4410 / Alloy 2507 is a SUPER-DUPLEX stainless steel.

## Special Properties

Exceptional strength and corrosion resistance. Excellent resistance to chloride stress corrosion cracking, high thermal conductivity, and a low coefficient of thermal expansion.

## Steel Grade

Alloy	UNS	Material No.	EN Designation
2507	S32750	1.4410	X2CrNiMoN25-7-4

## 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>
230	280	580-800	40/30	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
7.81	500	14.2	0.8

## Suitable Welding Filler Materials

1.4410

## Application

Chemical industry, oil and gas industry, cellulose industry

## Available Forms for ALLOY 2507

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