

## Stainless Steel

# 1.4162 (LDX 2101)

**Datasheet Updated**  
05 August 2021

### SPECIFICATIONS

Commercial	LDX2101
EN	1.4162

A low-alloyed, general purpose lean duplex stainless steel.

### CHEMICAL COMPOSITION

Element	% Present
Carbon (C)	0.00 - 0.04
Chromium (Cr)	21.00 - 22.00
Nickel (Ni)	1.35 - 1.70
Manganese (Mn)	4.00 - 6.00
Molybdenum (Mo)	1.00 - 0.80
Sulphur (S)	0.00 - 0.03
Phosphorous (P)	0.00 - 0.04
Copper (Cu)	0.10 - 0.80
Nitrogen (N)	0.20 - 0.25
Iron (Fe)	Balance

### ALLOY DESIGNATIONS

- 1.4162
- S32101
- ASTM A240

### SUPPLIED FORMS

- Fittings & Flanges
- Pipe
- Tube
- Plate

### APPLICATIONS

- Pulp and paper industry
- Desalination plants
- Flue-gas cleaning
- Cargo tanks and pipe systems in chemical tankers
- Seawater systems
- Firewalls and blast walls on offshore platforms
- Bridges
- Components for structural design
- Storage tanks
- Pressure vessels
- Heat exchangers
- Water heaters
- Rotors, impellers and shafts
- Flanges and valves

### CHARACTERISTICS

- High resistance to chloride stress corrosion cracking
- High strength
- Good fatigue strength
- Chloride pitting resistance comparable to type 316L stainless
- Good general corrosion resistance
- Good machinability and weldability
- Useful up to 600°F

**MECHANICAL PROPERTIES**

Property	Value
Proof Stress	450 Min MPa
Tensile Strength	650 Min MPa
Elongation A50 mm	30 Min %

**DISCLAIMER**

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