

LDX2101 is a Lean Duplex Stainless Steel manufactured by Outokumpu.

LDX2101 has excellent corrosion resistance, equal to traditional duplex grades, as well as very high strength.

LDX2101 also has very high resistance to chloride stress corrosion cracking.

In suitable applications LDX2101 can be used in place of austenitic grades 304/304L, 316/316L/316Ti without cost penalty, in fact often with a cost saving, provided that redesign takes place to exploit the high strength of LDX2101.

## CHEMICAL COMPOSITION

Element	% Present
Chromium (Cr)	21.00 - 22.00
Manganese (Mn)	4.00 - 6.00
Nickel (Ni)	1.35 - 1.70
Molybdenum (Mo)	1.00 - 0.80
Copper (Cu)	0.10 - 0.80
Nitrogen (N)	0.20 - 0.25
Carbon (C)	0.0 - 0.04
Phosphorous (P)	0.0 - 0.04
Sulphur (S)	0.0 - 0.03
Iron (Fe)	Balance

## ALLOY DESIGNATIONS

LDX2101 lean duplex stainless steel is equivalent to:  
1.4162  
S32101

## SUPPLIED FORMS

- Fittings & Flanges
- Pipe
- Plate
- Tube

## GENERIC PHYSICAL PROPERTIES

Property	Value
Density	7.8 g/cm <sup>3</sup>
Modulus of Elasticity	200 GPa

## MECHANICAL PROPERTIES

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

## CONTACT

**Address:** Please make contact directly with your local service centre, which can be found via the Locations page of our web site

**Web:** [www.aalco.co.uk](http://www.aalco.co.uk)

## REVISION HISTORY

**Datasheet Updated** 18 July 2019

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