

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 - 22
Manganese (Mn)	4 - 6
Nickel (Ni)	1.35 - 1.7
Molybdenum (Mo)	1 - 0.8
Copper (Cu)	0.1 - 0.8
Nitrogen (N)	0.2 - 0.25
Carbon (C)	0.04 max
Phosphorous (P)	0.04 max
Sulphur (S)	0.03 max
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 ³
Modulus of Elasticity	200 GPa

MECHANICAL PROPERTIES

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

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REVISION HISTORY

Datasheet Updated 18 July 2019

DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

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