



Corrosion Resistance Plus High Strength

Sandmeyer Steel has an extensive inventory of Duplex LDX 2101®, 2304, 2205 and 2507 plate products available to satisfy your requirements.

	TYPICAL				COMP			YIELD	TENSILE	ELONG
	EN	ASTM	C	CR	Ni	Mo	N	ksi	ksi	%
LDX 2101	1.4162	S32101	.03	21.5	1.5	0.5	.22	65	94	30
2304	1.4362	S32304	.03	23.0	4.0	0.5	.12	58	87	25
2205	1.4462	S31803/ S32205	.02	22.5	5.5	3.1	.17	65	90	25
2507	1.4410	S32750	.02	25.0	7.0	4.0	.27	80	116	15

General Characteristics

Duplex Stainless Steels combine many of the beneficial properties of ferritic and austenitic materials to provide both high strength and good corrosion resistance. Due to their high chrome and nitrogen contents and duplex structure, these steels offer the following benefits compared to 300 series austenitic grades:

- High Strength - Approximately twice the level of austenitics
- Good resistance to pitting and crevice corrosion
- Excellent resistance to stress corrosion cracking
- Good erosion and fatigue resistance
- Good weldability and increased heat transfer
- More stable pricing due to lower Ni levels than austenitic stainless

Applications

Due to these high strength and corrosion resistance properties, Duplex Stainless Steels are used in a variety of applications such as:

- Pressure vessels, reactor tanks and heat exchangers
- Desalination plants and seawater systems
- Water transmission pipes
- Rotors, impellers and shafts in industrial equipment
- Digesters, storage and clarifier tanks, stock washers and other equipment for the pulp and paper industry
- Absorber towers, FGD systems in pollution control
- Phosphoric acid production
- Food, oil and gas, mining and architectural applications

Value Added Processing

The Value Added Plate Processing capabilities that have serviced thousands of our satisfied customers for over 50 years are also available for your Plate Product requirements in Duplex Stainless Steels. With over 100 pieces of plate processing equipment in-house, Sandmeyer can provide you with nearly any shape or configuration required, from parts that are plasma cut to abrasive waterjet cut to *Machinicut* (our Specialty of the House), and much more.

Visit our website at www.SandmeyerSteel.com for a complete review of the Value Added Plate Processing we can do for you, as well as the most up-to-date Duplex Stainless Steel stock list.

	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3
LDX 2101	•	•	•	•	•	•	•	•	•	•	•	•				
2304	•	•	•	•	•	•	•	•	•	•						
2205	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2507	•	•	•	•	•	•	•	•	•	•						



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Providing Solutions, With Materials and Value Added Products, for Process Industries

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