

SS 201LN, Type 201LN, WNR 1.4371, UNS S20153, AISI 201LN, ASTM A240, Grade 201LN

Introduction :

Stainless steel 201LN is a cheaper alternative to the traditional Cr-Ni austenitic stainless steels such as stainless steel 304. Even in low temperatures 201LN stainless steel provides good resistance to oxidation, easy fabrication and excellent toughness. SS 201LN is not expensive as lower cost nitrogen and manganese are added as partial alternative for nickel. When temperature is decreased the yield and tensile strengths of 201LN grade gets increase. It is a non-magnetic steel and it is easily available in plates and sheets forms. Grade 201LN stainless steel is quite similar to grade 304 stainless steel. As compared to grade 304 stainless steel it has excellent mechanical strength, good resistance to corrosion and increased hardness. 201LN alloy is also suited for many ambient temperature structural applications, such as truck trailers, coal handling, railroad freight cars, and other bulk transport equipment where there is a need for a good combination of strength, corrosion resistance, ease of fabrication and toughness.

Chemical Composition

	SS 201LN	TYPE 201LN	WNR 1.4371	UNS S20153	AISI 201LN	ASTM A240	GRADE 201LN
Carbon	0.03 max	0.03 max	0.03 max	0.03 max	0.03 max	0.03 max	0.03 max
Manganese	6.4-7.5	6.4-7.5	6.4-7.5	6.4-7.5	6.4-7.5	6.4-7.5	6.4-7.5
Phosphorus	0.045 max	0.045 max	0.045 max	0.045 max	0.045 max	0.045 max	0.045 max
Sulfur	0.030max	0.030max	0.015 max	0.015 max	0.015 max	0.015 max	0.015 max
Silicon	0.75 max	0.75 max	0.75 max	0.75 max	0.75 max	0.75 max	0.75 max
Chromium	16.0-18.0	16.0-18.0	16.0-17.5	16.0-17.5	16.0-17.5	16.0-17.5	16.0-17.5
Nickel	4.0-5.0	4.0-5.0	4.0-5.0	4.0-5.0	4.0-5.0	4.0-5.0	4.0-5.0
Nitrogen*	0.10-0.25	0.10-0.25	0.10-0.25	0.10-0.25	0.10-0.25	0.10-0.25	0.10-0.25
Copper	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max

Mechanical Properties

	SS 201LN	TYPE 201LN	WNR 1.4371	UNS S20153	AISI 201LN	ASTM A240	GRADE 201LN
Ultimate Tensile Strength, ksi	95 min	95 min	95 min	95 min	95 min	95 min	95 min
0.2% Offset Yield Strength, ksi	45 min	45 min	45 min	45 min	45 min	45 min	45 min
Elongation in 2 inches, %	45 min	45 min	45 min	45 min	45 min	45 min	45 min
Reduction in Area, %	-	-	-	-	-	-	-
Hardness, Rockwell B	100 max	100 max	100 max	100 max	100 max	100 max	100 max

Standard Available in forms :

- ASTM A182/ ASME SA182 Stainless Steel Pipe Fittings
- ASTM A213 / ASME SA213 Seamless Stainless Steel Pipes
- ASTM A240/ ASME SA240 Stainless Steels Sheets / Plates
- ASTM A249/ ASME SA249 Stainless Steel Welded Tubes
- ASTM A269/ ASME SA269 Stainless Steel Tubes
- ASTM A270/ ASME SA270 Stainless Steel Sanitary Tubes
- ASTM A312/ ASME SA312 Stainless Steel Pipes
- ASTM A403/ ASME SA403 Stainless Steel Pipe Fittings
- ASTM A554/ ASME SA554 Stainless Steel Welded Tubes
- ASTM A731/ ASME SA731 Stainless Steel Pipes
- ASTM A789/ ASME SA789 Stainless Steel Tubes
- ASTM A790/ ASME SA790 Stainless Steel Pipes
- ASTM A791/ ASME SA791 Stainless Steel Tubes

Products Available in forms :

- SS 201LN, Type 201LN, WNR 1.4371, UNS S20153, AISI 201LN Plates
- SS 201LN, Type 201LN, WNR 1.4371, UNS S20153, AISI 201LN Pipes
- SS 201LN, Type 201LN, WNR 1.4371, UNS S20153, AISI 201LN Round Bar
- SS 201LN, Type 201LN, WNR 1.4371, UNS S20153, AISI 201LN Tube
- SS 201LN, Type 201LN, WNR 1.4371, UNS S20153, AISI 201LN Flanges
- SS 201LN, Type 201LN, WNR 1.4371, UNS S20153, AISI 201LN Wire
- SS 201LN, Type 201LN, WNR 1.4371, UNS S20153, AISI 201LN Fittings

"Aesteiron House", 107, Kika Street, 4th Floor, Gulawadi, Mumbai - 400 004, India.

info@aesteiron.com

www.aesteiron.com

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Applications

Grade 201LN is used widely in the transportation industry.

The following are the other applications of grade 201LN stainless steel:

- Strapping
- Clamps
- Cable racking
- Cryogenic vessels

Production Process:

- The production process of ASTM A240 S20153 Stainless steel we offered are: Hot rolled, cold rolled, annealing, pickling, cutting edge and so on.

ASTM A240 S20153 Stainless steel production process

- **Quenching:** After heating and preserving heat, cool ASTM A240 S20153 Stainless steel fast in water, oil or other inorganic salts, organic aqueous solution quench medium.

Quenched steel hardening, but brittle.



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