

TYPICAL APPLICATIONS AND CHARACTERISTICS

Austenitic - Ferritic - Nickel-base Alloy Steels

Austenitic Std Grades		
304L	1.4306	<p>These steels have a wide range of applications in piping, heat exchanger and other equipment for chemicals, petrochemical, pulp and paper and food processing industries.</p> <p>The Mo-allied grades have higher resistance to general corrosion in non-oxidising acids and to pitting and crevice corrosion.</p> <p>316LN is a high-strength variant of type 316L often used in the urea industry.</p>
304	1.4301	
316L	1.4435	
316	1.4436	
317L	1.4438	
316LN	1.4429	
321	1.4541	
316Ti	1.4571	
Duplex steel (ferritic-austenitic)		
S32750	1.4362	<p>Considerably higher strength and lower thermal expansion compared with austenitic grades.</p> <p>Very high corrosion resistance in chloride-containing solutions and weak organic acids.</p>
S32304	1.4462	
S31803	1.4417	
S31500		



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High alloy austenitic steel and nickel-base alloys		
N08904	1.4539	Phosphoric and sulphuric acid, seawater, refineries, and petrochemical plants.
S31254	1.4529	Higher strength, very good resistance to pitting corrosion in seawater and brackish water.
N08028	1.4563	Very good resistance to all kinds of corrosion, therefore wide field of applications.
310L	1.4335	Strongly oxidising acids, e.g. nitric acid.
310mod.	1.4466	Fertilizer industry, urea strippers.
N08825	2.4858	Superheaters tubes, very good resistance to stress corrosion cracking in basic and acid environments.



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High Temperature grades

321H	1.4941	Superheaters tubes in steam power plants, cooling tubes in ammonia plants, furnace tubes in EDC production. Up to 850° in air.
347	1.4550	
310	1.4845	Good oxidation resistance. Furnace tubes. Up to 1100°C in air.
446	1.4749	Sulphurous gases, recuperators, thermocouple protection tubes. Ferritic. Up to 1100-1150°C in air depending on load.
S30815	1.4828	Very versatile; furnace tubes, recuperators, heat treatment furnaces. Up to 1150°C in air.
N08810	1.4876	Furnaces tubes, pigtailed and headers for synthesis gas production, fluidised bed combustion. Up to 1150°C in air.
N08811		
N06600	2.4816	Vinyl chloride plants, heat treatment furnaces. Up to 1175°C in air.

General disclaimer

These information have to be intended as a general guide. Therefore their use is always at user's responsibility. Rey Italia makes no warranty of any kind with respect to the subject matter of accuracy of the information.