

Application Form for Material

Type	Material Name	Tensile Strength	Pressurization	Heat Resistance	Frequency
Austenitic stainless steel	SUS304	590 (60)	295 (30)	Geneal	More
	SUS304L	560 (57)	265 (27)	Geneal	More
	SUS316L	580 (59)	295 (30)	Geneal	More
	SUS316L	560 (57)	295 (30)	Geneal	More
	SUS3347	660 (67)	275 (28)	Geneal	Less
Semi austenitic stainless steel	AM350	1420 (145)	1195 (122)	Inferior	More
Inconel	Inconel 718	1350 (138)	1175 (120)	Well	More
	HastelloyC22	800 (82)	405 (41)	Well	More
	Monel Alloy	520 (53)	280 (29)	Inferior	Less
Titanium		390 (40)	295 (30)	Inferior	Less

Main Characteristics for Material

Austenitic stainless steel	Due to the corrosion resistance, machinability, welding and good toughness, high reliability, it's frequency of use as the main material of the corrugated pipe. With a wide range of alloy composition, you can choose preferred steel grade with various characteristics. SUS304 and SUS316L, as the main material of the corrugated pipe, is most commonly used.
Semi austenitic stainless steel	It used in field of high elasticity, high life, due to corrosion resistance and high strength after precipitation hardening and forming.
Inconel	Has the best corrosion resistance and heat resistance. Monel Alloy is acidproof, Hastelloy C-22 is acidproof and Heat Resistance.
Titanium	Light weight. It has better corrosion resistance for neutral, alkaline, oxidizing and organic solution.